| 1  | FEDERAL TRADE COMMISSION            |
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| 4  | COMPETITION AND CONSUMER PROTECTION |
| 5  | IN THE 21ST CENTURY                 |
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| 13 | 9:00 a.m.                           |
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|         |                  | First Version                         | ۷          |
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- 2 MR. KOBAYASHI: Okay, I think we're going to
- 3 get started. It's great to be back at Antonin Scalia
- 4 Law School. My name is Bruce Kobayashi, and I've been
- 5 a faculty member here since 1992. I'm currently on
- 6 leave and serving as the Director of the Bureau of
- 7 Economics. And in that capacity, it's my honor and
- 8 pleasure to be able to introduce our opening speaker
- 9 for the two morning panels on antitrust and labor
- 10 markets, Professor Alan Krueger.
- 11 Professor Krueger holds a joint appointment
- 12 at the Department of Economics in the Woodrow Wilson
- 13 School as the Bendheim Professor of Economics and
- 14 Public Affairs at Princeton University. It's a
- 15 particularly appropriate choice to open our labor
- 16 market sessions, having published widely on the
- 17 economics of education, unemployment, labor demand,
- 18 income distribution, social insurance, and labor
- 19 market regulation.
- 20 In addition to a long list of academic
- 21 articles, he has published multiple books, including
- 22 his coauthored book with David Card, Myth and
- 23 Measurement: The New Economics of the Minimum Wage,
- 24 and a book that I put on my reading list, Rockonomics:
- 25 How Music Explains Everything (about the Economy),

23

24

25

| 1  | especially since I saw in the blurb that he            |
|----|--|
| 2  | interviewed the manager of the Red Hot Chili Peppers.  |
| 3  | Professor Krueger has served in the                    |
| 4  | Government. He was the Chairman of the Council of      |
| 5  | Economic Advisers and a member of President Barack     |
| 6  | Obama's cabinet from 2011 to 2013. Just prior to       |
| 7  | that, he served as Assistant Secretary for Economic    |
| 8  | Policy, and as a chief economist with the U.S.         |
| 9  | Department of Treasury from 2009-2010.                 |
| 10 | And way back in the day when we were all               |
| 11 | younger he's still younger than I am he was a          |
| 12 | chief economist at the U.S. Department of Labor. So    |
| 13 | Alan certainly knows a lot about labor and public      |
| 14 | policy. He has held high positions in the American     |
| 15 | Economic Association, served on the executive          |
| 16 | committee, won numerous awards, too lengthy to         |
| 17 | mention. Here's his resume. It's double-sided. But     |
| 18 | let's give a warm welcome to our opening speaker, Alan |
| 19 | Krueger.   |
| 20 | (Applause.)  |
| 21 |  |
| 22 |  |

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| 1  | WELCOME AND OPENING ADDRESS                            |
|----|--|
| 2  | MR. KRUEGER: Thanks very much for that                 |
| 3  | generous introduction, and especially for plugging my  |
| 4  | book, which will be out in May. But you may            |
| 5  | especially be interested in the book by Flea of the    |
| 6  | Red Hot Chili Peppers, which covers the first 18 years |
| 7  | of his life, which will be out around the same time as |
| 8  | mine. And I'm concerned there may be competition.      |
| 9  | I want to thank the FTC for inviting me and            |
| 10 | for holding this set of hearings. It's a really        |
| 11 | impressive set of topics that are being discussed by a |
| 12 | very impressive set of researchers and others. What I  |
| 13 | thought I would do is give an overview of how I see    |
| 14 | competition and lack of competition in the labor       |
| 15 | market.  |
| 16 | I think this is a particularly appropriate             |
| 17 | time to have this discussion. Research in labor        |
| 18 | economics has been growing very quickly on             |
| 19 | noncompetitive practices and on the noncompetitive     |
| 20 | workings of labor markets. I think this is a topic     |
| 21 | which is very important. I think it's one in which     |
| 22 | the evidence is still evolving. We face similar kinds  |
| 23 | of challenges in the labor market, as industrial       |
| 24 | organization economists face in looking at product     |

markets in terms of defining the scope of a market.

- 1 In fact, in many ways, I think it's more difficult in
- 2 a labor market because every individual is unique.
- 3 That said, I think there's a growing body of
- 4 evidence which suggests that the go-to model of the
- 5 labor market, which has historically been one of
- 6 perfect competition, is probably not the best model to
- 7 use in many situations. In a perfectly competitive
- 8 model of the labor market, bargaining power is
- 9 completely irrelevant because wages are determined by
- 10 the external forces of supply and demand. Firms just
- 11 passively accept whatever the market wage is.
- 12 In many applications, I think it is more
- 13 appropriate to model the labor market as imperfectly
- 14 competitive, and Bob Topel arrived just in time,
- 15 subject to monopsony-like effects, collusive behavior
- 16 by firms, search frictions, and surpluses that are
- 17 bargained over. As a result of these labor market
- 18 features, I think it's often more appropriate to view
- 19 firms as wage-setters or wage-bargainers rather than
- 20 wage-takers.
- 21 This perspective can explain many well-
- 22 documented phenomena in the labor market, such as the
- 23 high variability in pay for workers with seemingly
- 24 identical skills, who work in different industries or
- 25 in different firms, the lack of evidence that minimum

- 1 wage increases reduce employment, and the reluctance
- 2 of firms to raise wages despite facing vacancies.
- Now, I've noticed that many economists are
- 4 reluctant to accept the idea that markets are
- 5 manipulable, that firms or traders have some power
- 6 over prices and wages. When I worked at the U.S.
- 7 Treasury Department in 2009 and 2010, and I had the
- 8 opportunity to work with some of the best finance
- 9 economists in the world, who were on leave to help
- 10 during the financial crisis, my colleagues thought it
- 11 was inconceivable that foreign exchange markets or
- 12 LIBOR could be manipulated. After all, these are the
- 13 largest and most liquid markets in the world.
- 14 Only later did we learn that several traders
- 15 had been convicted of colluding on exchange rates and
- 16 that LIBOR was totally rigged. Interestingly, the
- 17 people who I worked with who came from the markets who
- 18 actually had experience trading thought this was guite
- 19 the norm.
- Now, one economist who thought that labor
- 21 markets are imperfect and subject to manipulation was
- 22 Adam Smith. In The Wealth of Nations, Smith wrote,
- 23 quote, "Employers are always and everywhere in a sort
- 24 of tacit, but constant and uniform combination, not to
- 25 raise the wages of labour above the actual rate. To

- 1 violate this combination is everywhere a most
- 2 unpopular action, and a sort of reproach to a master
- 3 among his neighbors and equals."
- 4 Smith ridiculed naysayers who doubted that
- 5 employers colluded as "ignorant of the world as of the
- 6 subject." And then in full conspiracy mode, he added,
- 7 "We seldom, indeed, hear of this combination because
- 8 it is the usual, and one may say the natural state of
- 9 things, which nobody ever hears of."
- Now, you don't have to look too far to find
- 11 evidence of the conspiracy that Adam Smith warned
- 12 about. In an ongoing FTC case involving physical
- 13 therapists in Dallas and Fort Worth, the language
- 14 rings very similar to what Adam Smith wrote about,
- 15 only it's been more modernized with texting. The
- 16 owner of one physical therapy company wrote another,
- "Yes, I agree, I'll do it with U." You was spelled U,
- 18 not Y O U. And "do it" was referring to jointly
- 19 agreeing to lower wages.
- Now, I'll return to some other cases
- 21 involving collusion in the job market. Broadly
- 22 speaking, there are two varieties of economic models
- 23 that give employers some discretion over wage-setting.
- 24 The first, pioneered by Joan Robinson, is a static
- 25 monopsony model, where there's a single employer who

- 1 faces an upward-sloping labor supply curve. This
- 2 could be easily extended to a small number of
- 3 employers, oligopsony. And it could be extended to
- 4 Smith-like situations, where employers jointly collude
- 5 to suppress pay below the competitive rate.
- The second class of models, which were
- 7 pioneered by Ken Burdett, Dale Mortensen, Chris
- 8 Pissarides, Peter Diamond and extended recently by
- 9 Alan Manning, rests on search frictions. And there
- 10 were a variety of different types of search models,
- 11 but basically it takes time and effort for workers to
- 12 search for job openings and for firms to search for
- 13 workers. As a consequence, the firm pays a little
- 14 less than the going wage; it would not lose all of its
- 15 workers or find it impossible to hire new ones.
- 16 In fact, there is no single going wage in
- 17 these models but a range of plausible offers that
- 18 firms could make, or bargains that firms and workers
- 19 can strike. As a practical model -- a practical
- 20 matter, both classes of models are equivalent to
- 21 assuming that the labor supply curve to a firm is
- 22 upward-sloping instead of infinitely elastic. Firms
- 23 would operate with costly vacancies in these models,
- 24 yet resist raising wages because pay would need to be
- 25 increased for all workers, not just the incremental

- 1 hired worker. And the employers collude to hold wages
- 2 to a fixed below-market rate, or monopsony power
- 3 increases over time, then wages could remain
- 4 stubbornly resistant to upward pressure, even at a
- 5 time when the economy is booming.
- 6 So with this framework as background, I'd
- 7 like to make four observations about the labor market
- 8 that I think are particularly relevant at a time when
- 9 we're seeing relatively weak wage growth despite 50-
- 10 year low unemployment. First, average wage growth is
- 11 weaker than one would expect from historical
- 12 relationships between wage growth and the unemployment
- 13 rate.
- 14 Janet Yellen alluded to this earlier this
- 15 week and said that a leading explanation for the shift
- 16 in the Phillips curve is that worker bargaining power
- 17 is weaker than it used to be. Although nominal wage
- 18 growth has been creeping up in this recovery, over the
- 19 last 12 months, nominal wage growth has barely kept
- 20 pace with inflation. And there are many explanations
- 21 for why wage growth may be weaker than we would
- 22 predict. Low productivity growth, I think, is an
- 23 important factor, but low productivity growth can't
- 24 account for the last year because productivity growth
- 25 has picked up, yet wage growth -- real wage growth --

- 1 has actually weakened.
- 2 Based on the specification of the wage
- 3 Phillips curve that I estimated 20 years ago in a
- 4 Brookings paper, I would expect wages to be between 1
- 5 and 1 and a half percent stronger today than they have
- 6 been.
- 7 Second observation. There's growing
- 8 evidence supporting an important role of monopsony
- 9 power in the job market stemming from both employer
- 10 concentration and dynamic labor market considerations.
- 11 I won't go into too much detail on this work because
- 12 one of the main contributors, Ioana Marinescu, is
- 13 here, but basically this work finds that measures of
- 14 employer concentration, even measured by concentration
- 15 within an industry in a county or concentration -- of
- 16 employment within an industry in a county in work by
- 17 Benmelech and coauthors, or measured by job openings,
- 18 posted online for occupations within a small commuting
- 19 zone, show a relationship with wages which suggests
- that in more concentrated areas, wages are lower,
- 21 other things being held equal.
- There is also some evidence that
- 23 concentration has increased, although again, I think
- 24 it's important that we define the boundaries of the
- 25 labor market carefully in that work. Other studies

- 1 have looked at monopsony power within specific
- 2 industries. And here I think the most work has been

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- done in the nursing industry. Dan Sullivan in 1989,
- 4 Doug Staiger in 2010 and coauthors found substantial
- 5 evidence that hospitals are able to use monopsony
- 6 power in setting wages for nurses.
- 7 Then lastly, there's evidence on dynamic
- 8 monopsony power. For example, Doug Webber has used
- 9 the longitudinal employer household dynamics data
- 10 set to estimate labor supply elasticities to firms.
- 11 Specifically, he looked at how turnover relates to the
- 12 generosity of compensation across firms, he found that
- 13 the average labor supply elasticity to a firm was 1.1.
- 14 And he also found considerable variability across
- 15 firms, and the firms that had a more inelastic labor
- 16 supply tended to pay lower wages, as one would expect
- if they take advantage of their monopsony position.
- Third, monopsony power and search frictions
- 19 have probably always existed in the labor market. But
- 20 the forces that traditionally counterbalanced
- 21 monopsony and boosted worker bargaining power have
- 22 eroded in recent decades. The most obvious is labor
- 23 unions. Union membership fell from 25 percent of the
- 24 workforce in the U.S. in 1980 to 10.7 percent last
- 25 year.

- 1 Collective bargaining used to be an
- 2 effective counterweight to monopsony power. We used
- 3 to write papers on the union threat effect, but in
- 4 most industries, there's hardly any union threat
- 5 effect, so the spillover effects where companies might
- 6 raise wages to try to prevent having a union drive is
- 7 weaker than it used to be. Another counterbalance to
- 8 monopsony power that is weaker today is the minimum
- 9 wage. The U.S. federal minimum wage is currently
- 10 \$7.25 an hour. It had not been raised since July of
- 11 2009. The real value of the minimum wage is down
- 12 about 20 percent since 1979.
- By contrast, in that period, both the U.K.
- 14 and Germany enacted their first national minimum
- 15 wages, and they currently stand at \$10 an hour at
- 16 current exchange rates. The decline in unionization
- 17 and the erosion of the real value of the minimum wage
- 18 have been found to significantly contribute to higher
- 19 income inequality and polarization in the U.S.
- 20 workforce.
- 21 These shifts have also probably contributed
- 22 to the downward trend in labor share in the U.S. since
- 23 the 1990s after decades of stability. Now, one might
- 24 argue that these changes to the labor market have made
- 25 the labor market more competitive. But the fact that

- 1 the employment-to-population rate has trended down,
- 2 especially for the workers who were covered by
- 3 collective bargaining and affected by the minimum
- 4 wage, and that regional shocks are now more
- 5 persistent, the wages, employment, and labor force
- 6 participation suggests that we have a less competitive
- 7 labor market with weaker bargaining power and more
- 8 monopsony power.
- 9 There's been a proliferation of practices
- 10 that enhance monopsony power and weaken worker
- 11 bargaining power. I'll highlight five of these
- 12 practices. First, there's been increased reliance on
- 13 temporary help agencies, staffing firms, and
- 14 outsourcing. One implication of this practice is that
- 15 firms can wage-discriminate. This can facilitate
- 16 monopsony. If a hospital has persistently high
- 17 vacancies for a nursing position, it can reach out to
- 18 a staffing firm, hire a staff nurse from the firm, and
- 19 pay a higher salary to that particular nurse than
- 20 other nurses who are employed by the hospital.
- 21 Second, a quarter of American workers are
- 22 bound by a noncompete restriction on their current job
- 23 or from a previous job. These restrictions, which may
- 24 be justified in an unlimited number of cases to
- 25 protect returns to specific training or trade secrets,

- 1 have truly run amok. Even Jimmy John's used the
- 2 practice for submarine sandwich makers until they were
- 3 forced to drop it.
- 4 Just over one in five workers who earn less
- 5 than the median wage are bound by a noncompete
- 6 restriction on their current or previous job,
- 7 according to work that Eric Posner and I have done,
- 8 and I'm sure we'll hear more about noncompetes later
- 9 from Evan Starr. Noncompete agreements lower --
- 10 reduce workers' options and reduce mobility and
- 11 bargaining power.
- 12 Third, a growing fraction of the workforce
- is covered by occupational licensing restrictions,
- 14 typically imposed by state and local authorities.
- 15 Morris Kleiner and I, for example, find that over a
- 16 quarter of workers are required to obtain a license to
- 17 perform their job. These restrictions may be
- 18 justified in positions that require extraordinary
- 19 skill or put the public at risk, but they also
- 20 restrict job opportunities and mobility.
- 21 Occupational licensing has also run amok.
- 22 It's particularly difficult for workers who want to
- 23 change jurisdictions, change states. It is especially
- 24 a burden on military spouses. Military families move
- 25 around often. The most common jobs for military

- 1 spouse are nurses and teachers who often have to get
- 2 licensed in the new state when they move, pay a
- 3 licensing fee, and by the time they are permitted to
- 4 work in those states, they often move again.
- 5 Fourth practice, my colleague, Orley
- 6 Ashenfelter, and I have found that 58 percent of
- 7 franchise companies have a no-poaching clause in their
- 8 franchise contract that prevents one franchisee from
- 9 hiring workers from another franchisee or from the
- 10 franchise company itself if the company operates
- 11 stores. This is up from 36 percent of franchise
- 12 companies in 1996. The practice is particularly
- 13 common in fast food chains. We found that 80 percent
- 14 of the largest quick-service restaurant franchise
- 15 chains had a no-poaching requirement.
- 16 Since the human capital that is being
- 17 prohibited from moving around different outlets within
- 18 the franchise would stay in the franchise company, it
- 19 is awfully hard to see a business justification for
- 20 this practice other than trying to suppress mobility
- 21 and suppress workers' wages.
- 22 Washington State took action. The Attorney
- 23 General in Washington State launched an investigation
- 24 and managed to persuade 30 of the largest franchise
- 25 chains to drop their no-poaching agreement in the U.S.

- 1 -- in Washington State and the U.S. Almost all of the
- 2 major fast-food companies with the no-poaching
- 3 agreement have dropped -- have dropped that from their
- 4 contract, thanks to the work of Bob Ferguson, the
- 5 Attorney General in Washington State, over the last
- 6 couple of months.
- Just yesterday he announced that he's
- 8 bringing a lawsuit against Jersey Mike's, a franchise
- 9 based in my state, New Jersey, which operates in
- 10 Washington State and other states for continuing to
- 11 use this practice.
- 12 I should add that in addition to restricting
- 13 mobility and increasing monopsony power, these types
- 14 of restrictions on mobility like noncompete clauses
- and no-poaching agreements, and the no-poaching
- 16 agreement was just completely blind to the worker.
- Workers are not aware they're not party to these
- 18 agreements. They reduce workers' opportunities for
- 19 finding better job matches, improving their working
- 20 conditions in other ways, and work by Bob Topel and
- 21 Michael Ward back in 1992 found that about a third of
- 22 the wage gains in the first ten years of young
- 23 workers' careers were associated with job changes.
- 24 So apart from the effect of suppressing
- 25 wages at the firm where these workers work, they also

- 1 reduce opportunities for the workers to move up the
- 2 wage hierarchy. Now, no-poaching agreements would
- 3 clearly be illegal if they occurred across unrelated
- 4 firms. It's an unsettled area of the law as I
- 5 understand it, if franchisees agree to these types of
- 6 no-poaching agreements. But as I mentioned earlier,
- 7 there are violations of the law outside of the
- 8 franchise sector as Adam Smith had anticipated. I
- 9 could go through many examples, but I think I'm
- 10 running short on time, so I'll give you a few more.
- 11 In the famous case, Apple, Google, Adobe,
- 12 Intel, and Intuit, Pixar, Lucas Films were found to
- 13 have colluded on not hiring each others' workers,
- 14 colluding on pay settings, and paid a half-billion-
- 15 dollar settlement in 2015. There have been several
- 16 cases in the hospital industry, addressing pay of
- 17 nurses. Eight major hospitals in Detroit recently
- 18 reached a \$90 million settlement in a suit alleging
- 19 that the hospitals colluded to reduce nurses' pay.
- 20 Similar cases are in various stages in
- 21 Albany, Memphis, San Antonio, and Arizona. A couple
- 22 of months ago, I spoke with Jeff Suhre, who is a
- 23 registered nurse and was the lead plaintiff in the
- 24 Detroit nurses case. I wanted to understand from his
- 25 perspective how he came to recognize that this was

- 1 taking place and what impact it had on his career and
- 2 his work.
- 3 He said that he worked at the emergency room
- 4 at St. John Providence Hospital in Warren, Michigan.
- 5 He was hired in 1991. He later moved to the critical
- 6 care unit, and he attended patients who were
- 7 recovering from open heart surgery and other serious
- 8 conditions. After working there for 12 or 13 years,
- 9 Mr. Suhre said he got an inkling that the human
- 10 resource department at his hospital was coordinating
- 11 with other hospitals and setting nursing pay because
- 12 he had an opportunity to see some emails where they
- 13 were discussing trying to reduce mobility and
- 14 coordinate on pay.
- 15 He said the hospitals -- the nurses at his
- 16 hospital were nonunionized, and the hospitals in the
- 17 area wanted to prevent nurses from jumping from one
- 18 hospital to the another for better pay and better
- 19 working conditions. The executives would often
- 20 discuss these issues and exchange pay rates at
- 21 conferences. One indication that the hospitals
- 22 exploited their monopsony power that he told me about
- 23 was that when they had vacancies, which was often, the
- 24 hospital would reach out to a staffing firm. The
- 25 staffing nurses were paid \$40 an hour, plus the firm

- 1 got administrative fees, while employee nurses were
- 2 paid \$30 an hour.
- 3 A class action suit was filed on behalf of
- 4 Mr. Suhre and thousands of other nurses in 2006. He
- 5 gave a deposition in 2007. He said the hospital,
- 6 "made my life hell for me after that," increased his
- 7 patient load to a level he considered unsafe for the
- 8 patients. He quit in 2008. Other hospitals were
- 9 reluctant to hire him. He now works in home
- 10 healthcare.
- 11 The antitrust suit was settled in 2010. Mr.
- 12 Suhre did not receive any compensation until 2012, six
- 13 years after the suit was filed. So I think this gives
- 14 an indication of the challenges that workers face in
- 15 this situation and the retaliation that they sometimes
- 16 can face.
- 17 It's worth noting that collusion is easier
- 18 when there are fewer firms in a market. The increase
- in employer concentration in the U.S. has probably
- 20 facilitated collusion. And collusion doesn't have to
- 21 be explicit. Employers could collude at a focal
- 22 point. The minimum wage could be a focal point, for
- 23 example. Round numbers could be a focal point. And
- 24 there is evidence that this type of passive collusion
- 25 occurs as well.

- 1 Now, a really tight labor market might make
- 2 it possible for this collusion to break down. I
- 3 suspect that's part of the reason for the historical
- 4 Phillips curve to exist in the first place, so we may
- 5 see some improvement if the economy continues to
- 6 improve and the unemployment rate continues to stay
- 7 low.
- 8 I want to conclude by saying I presented a
- 9 similar set of remarks at Jackson Hole this summer at
- 10 the Kansas City Fed annual conference on monetary
- 11 policy. The reaction I got was quite encouraging. I
- 12 think many of the monetary policy officials thought
- 13 these issues are important, but probably beyond the
- 14 reach of monetary policy. I think there was a
- 15 consensus coming out of that meeting that these are
- 16 very important issues for the Department of Justice
- 17 and for the FTC to focus on.
- 18 I want to commend the FTC and the DOJ for
- 19 issuing joint guidance in October of 2016 for human
- 20 resource professionals clearly stating that wage-
- 21 fixing and agreements not to poach other firms'
- 22 workers are illegal. And I think this is an area that
- 23 needs a greater intention and more vigilant
- 24 enforcement, because from the evidence that is
- 25 available, it seems that Adam Smith was right and

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1
     there are many instances of employers combining
 2
     tacitly, sometimes explicitly, as in those emails that
 3
     I read before, to try to suppress pay. Thank you.
 4
               (Applause.)
 5
               (Welcome and introductory remarks
 6
     concluded.)
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- 1 PANEL 1: ECONOMIC EVIDENCE OF LABOR MARKET MONOPSONY
- 2 MR. SANDFORD: Thank you, Alan. And thank
- 3 you to everyone for coming or watching on the web. My
- 4 name is Jeremy Sandford. I'm an economist at the FTC,
- 5 and I will be one of the moderators of this panel.
- 6 The other will be Devesh Raval, who is also an
- 7 economist at the FTC and is seated to my left.
- 8 We have a very strong panel to discuss the
- 9 issue of labor market monopsony. We've already heard
- 10 from Alan Krueger. The other panelists are Matthias
- 11 Kehrig of Duke University. Ioana Marinescu of the
- 12 University of Pennsylvania School of Social Policy and
- 13 Practice, Nancy Rose of MIT, and Nancy recently served
- 14 as the Deputy Assistant Attorney General for the
- 15 Department of Justice, and Bob Topel of the Booth
- 16 Business School at Chicago.
- 17 So Alan's already had a chance to give
- 18 remarks. The other four panelists are now going to
- 19 each have up to 12 minutes to give opening remarks.
- 20 And the order will be first Matthias, then Ioana, then
- 21 Nancy, and then Bob. And following that, we'll have a
- 22 Q&A session in which Devesh and I ask questions of the
- 23 panel.
- 24 So with that, I will hand it off to
- 25 Matthias.

- 1 MR. KEHRIG: Okay. Thank you very much for
- 2 the invitation to discuss here with other academics
- 3 and policymakers, economists of the FTC, concentration
- 4 and market imperfection in labor markets. I'm a
- 5 macroeconomist. I work on productivity and firm
- 6 dynamics and how firm -- high-productivity and low-
- 7 productivity firms evolve over time, how they hire and
- 8 what wages they pay.
- 9 So in principle, what I'm going to want to
- 10 bring to this discussion is little bit the firm side,
- 11 how do firms decide, how do they act in labor markets,
- 12 how do they respond to market conditions in terms of
- 13 their employment, in terms of their wages and so on.
- 14 So the first important thing that I want to say is,
- 15 when we talk about wages, wages are compensation for
- 16 something that the worker produces for the firm, which
- is somehow value-added per worker or gross profits per
- 18 worker.
- 19 So this is what I'm going to add to this,
- 20 and I basically want to make four points here. The
- 21 first point is I want to talk about how concentration
- 22 evolved in markets. I'm going to talk about markets,
- 23 I want to talk about, first of all, open markets,
- 24 goods markets, and, secondly, input markets, labor
- 25 markets. It turns out they're actually slightly

- 1 different, and that's important because when you think
- 2 about how firms should typically respond to standard
- 3 economic reasoning, they should be related, but they
- 4 are not since the 1980s.
- 5 The second point I want to make is that
- 6 overall the labor compensation and labor productivity
- 7 per worker, they have diverged since the '80s. So on
- 8 principle, you can think of this, this is the fact
- 9 that the aggregate labor share in the economy, the
- 10 share of GDP that is paid out as wages and
- 11 compensation for workers, has gone down. And the
- 12 interesting aspect is when you look at individual
- 13 firm-level data, for the average firm, this is not the
- 14 case. It is really a very small subset, a very few
- 15 what we call hyper-profitable or superstar firms that
- 16 have tremendous productivity growth and don't share
- 17 with the workers.
- 18 The third point I want to say, it's like
- 19 this productivity growth primarily stems from the
- 20 output side of firms. So these firms, they make
- 21 incredible profits by having high relative prices
- 22 compared to their peers in the same product and market
- 23 and so on. It is not so much that they pay
- 24 particularly lower wages. It still could be going on
- 25 that although wage level is suppressed because of

- 1 various factors that Alan Krueger mentioned --
- 2 collusion, unionization and so on -- but when we
- 3 single out these individual firms that have this
- 4 tremendous productivity growth and no really wage
- 5 payment, it is not because they undercut the wages,
- 6 it's because they are at relatively high prices.
- 7 And the last point that I want to make is
- 8 that there's remarkable turnover at this high price
- 9 end of the market, that the firms are kind of in a
- 10 mutual competition of overtaking each other, and that
- 11 has become increasingly volatile, and that might be
- one reason also why they don't pay higher wages
- 13 because on the output sides, they face a lot of demand
- 14 pressure.
- So first point, the concentration dynamics.
- 16 So when we look at the concentration in goods markets,
- 17 this is from a slide from some work from David Autor
- 18 and others. The concentration goods market has been
- 19 unambiguously going up. If you look at the share of
- 20 sales accounted for by the top four or by the top 20
- 21 firms, what you see is that has been increasing
- 22 secularly. And that's true for many other
- 23 concentration measures such as the Herfindahl index
- 24 and others.
- 25 So these are -- this is based on census

- 1 data, and the census data in principle captures all
- 2 the businesses there are. So they capture in
- 3 principle all the sales. They also, of course, record
- 4 employment, and that's what I want to show to you now,
- 5 is when we look at the same idea of concentration
- 6 measures in the labor market, the evidence is much
- 7 more ambiguous. So there's some recent work by
- 8 Claudia Macaluso, Brad Hershbein, and Chen Yeh, and
- 9 also David Berger, Kyle Herkenhoff, and Simon Mongey,
- 10 that they say actually if you look at the local
- 11 concentration of employment in local labor markets
- 12 that's been going down.
- Now there's some other work and evidence on
- 14 the concentration of -- among new vacancy posting of
- 15 job openings. So that's slightly different. What I'm
- 16 showing here is these people have worked on the
- 17 concentration of the total employment. And, of
- 18 course, when it comes to wage-setting, wages are
- 19 typically set at the beginning of when a worker starts
- 20 working for a firm, so when they're hired, when the
- 21 vacancy is opened, and then there are some interview
- 22 postings and then filled. So employed workers don't
- 23 get as much wages, unless they're poached, unless
- 24 they've alternate offers or they quit.
- 25 So the first -- the takeaway is that the

- 1 concentration dynamics don't exactly line up. Of
- 2 course, there are many questions that are dicey here,
- 3 about measurement, what exactly is a firm, what
- 4 exactly is a local labor market? Should we look at
- 5 overall employment, should we look at the net addition
- 6 of employment. So I want to acknowledge that there
- 7 are many measurement issues that we want to -- should
- 8 be mindful of, but in principle what we see is upward
- 9 concentration and labor market concentration do not
- 10 move in lockstep.
- 11 So, so far this is all data on the entire
- 12 U.S. economy. Now I'm moving on to my own work based
- 13 on micro-level data in the manufacturing sector. The
- 14 reason why I'm doing this is because in manufacturing
- 15 we have very good data on both input, output, and we
- 16 can talk about productivity. We can precisely talk
- 17 about what does the worker produce for the firm, what
- is value added per worker, and what is the wage of
- 19 that worker.
- 20 So standard economic theory would say, well,
- 21 if there is a very good -- quote, unquote -- firm that
- 22 gets very large, sells a lot of products, then in
- 23 principle that firm should draw resources, should
- 24 poach workers from other firms, should grow, and that
- 25 grows the economy. That reallocation of work is

- 1 essential for economic growth. This is standard
- 2 thinking.
- 3 And when we actually ask ourselves if that's
- 4 really the case, there has to be something changing in
- 5 that relationship. What I'm now showing you is a
- 6 simple plot about productivity shocks, a total effect
- 7 of productivity shocks and how firms respond to them
- 8 in terms of their hiring. So the question is do firms
- 9 that have a high productivity that are very
- 10 profitable, do they also expand in terms of
- 11 employment. That would be the standard way our
- 12 economic reasoning works.
- 13 So from this work here with Cosmin Ilut and
- 14 Martin Schneider, what we saw is that on the right
- 15 axis, to the right of the zero, you have the high
- 16 profitable firms. They expand that hiring. The low
- 17 profitability firms, they cut hiring. So that was the
- 18 1960s, 1970s, up to the early 1980s. But when you
- 19 start rolling this forward into the 1990s, 2000s,
- 20 2010s, that relationship changes. In particular, it
- 21 changes at the top end.
- 22 So this relationship becomes asymmetrical
- 23 because the high-productivity firms don't hire
- 24 anymore. Low-productivity firms still fire. So what
- 25 we see is we have some of these -- quote, unquote --

- 1 superstars, they don't pass on their great
- 2 profitability shocks into employment. Well, the
- 3 obvious question, then, is do they at least pay high
- 4 wages, though, because they are -- they should pay
- 5 high wages for two reasons. A, they are very
- 6 profitable, they get a high T of P shot. And,
- 7 secondly, since they don't hire, the output per worker
- 8 that remains is higher now.
- 9 So in other words, talking about wages is
- 10 basically nothing else -- I want to mention that
- 11 there's a similar relationship also about investment.
- 12 So the question now is, when we think about do these
- 13 firms pass on their high profitability into the wages,
- 14 it's based on nothing else than the question, what is
- 15 the labor share? The labor share, in principle, if
- 16 you go to Y, which denotes here GDP, or output, L is
- 17 workers, the amount of workers, and W is the wage
- 18 rate. When labor productivity is high, if the market
- 19 is perfectly competitive, if there are no frictions,
- 20 if workers can move around and so on, then the wage
- 21 also would go up because workers will compete for what
- they produce.
- 23 However we know that in the aggregate, the
- 24 labor share, the accurate labor share, the total wage
- 25 flow, WL divided by GDP has been going down since the

- 1 '80s. So that has been documented by a bunch of
- 2 papers. The interesting part is that downward trend
- 3 in the aggregate labor share is actually driven by a
- 4 very small set of firms. About 10 to 15 percent of
- 5 the firms in the economy drive down the aggregate
- 6 labor share. The other 80 to 85 percent tack on as
- 7 always. Their labor share is stable but they remain
- 8 smallish.
- 9 One way to see that is the following graph.
- 10 On the left side, we have again like the 1960s. This
- 11 is the first year when we have data and the right side
- 12 is in 2012. What I plot on the X axis is the labor
- 13 share, so how much -- across firms, now. This is
- 14 firm-level analysis. So on the axis, you see some
- 15 firms that have a labor share of close to zero. That
- 16 means they generate a lot of value-added, and only
- 17 very small fraction, like 0.2, would say only 20
- 18 percent of that value added is paid out as a wage
- 19 bill.
- 20 And you see the thin black line is the
- 21 overall distribution, where firms are. You see that
- 22 in the '60s, in the 2000s, most firms are actually
- 23 middle-of-the-road-type of firms. What is changing is
- 24 how big these firms are. These are the gray bars.
- 25 The gray bars denote where in the spectrum of labor

- 1 shares is actually value-added economic activity
- 2 taking place.
- And you see by the end of the sample in 2012
- 4 most of the economic activity, most of the output that
- 5 is being produced is produced by these incredibly low
- 6 labor share firms that have very, very high output,
- 7 don't pay high wages, and they account for an
- 8 incredible market share. So the question is where
- 9 does that come from. Do these guys pay low wages, or
- 10 do they just generate a lot of profits?
- 11 So the way we assess that is we look at the
- 12 wage scale of these firms. Principally we go back to
- 13 the distribution of labor shares and ask yourself, how
- 14 does the wage scale look like across that spectrum of
- 15 labor shares, do the lowlander firms, do the low labor
- 16 share firms, do they undercut their competitors in
- 17 terms of wages because they are very dominant, because
- 18 they operate in very concentrated markets, and they
- 19 pay low wages, or is it because they're just compared
- 20 to the other firms relatively profitable but they pay
- 21 the same wages as everybody else?
- 22 So when we look at the wage scale of that,
- 23 this is the left graph here, you see that the wage
- 24 scale, which is the light gray line, is basically
- 25 almost the same across all the labor share firms. So

- 1 that means these few superstar firms at the low
- 2 spectrum of the labor share that basically don't share

First Version

- 3 with the workers, don't have a labor share because
- 4 they screw all their workers because of wages. The
- 5 way they differ is, and this is the darker gray line,
- 6 is they're immensely profitable per worker. They
- 7 don't share these profits with their worker. If the
- 8 labor share was completely the same for all the firms,
- 9 then these -- the light gray and the dark gray line
- 10 would be on top of each other and they would be all at
- one labor share, but this is not the case.
- 12 What -- the primary difference of these
- 13 firms is in their output side, is in the prices. So
- 14 they generate these profits predominantly by going --
- 15 by charging relatively high prices, not by being,
- 16 like, fantastically physically more better; that they
- 17 just have faced demand conditions that allow them to
- 18 charge relatively high prices and you can see these
- 19 differences are pretty soft, as I said. This is a log
- 20 point difference here of like .4, .5, so that means
- 21 exponent of that, that's something like close to twice
- 22 the price for the same -- for the same product in the
- 23 same market at a very fine definition, of course,
- 24 there are many -- many measurement issues surrounding
- 25 this.

- 1 And these firms generate extremely high
- 2 profits which they don't share with workers, but they
- 3 are high prices. The reason one can conjecture, which
- 4 I want to throw in into the discussion, which is
- 5 behind the -- what's happening on the wage side, is
- 6 the reason why they might not share with the workers
- 7 is these high prices for a given firm, if we follow
- 8 them over time, are relatively transient. So if you
- 9 look over time, what's going on, these low labor share
- 10 firms -- please just look at the right graph, that's a
- 11 bit more intuitive -- the firms that have a relatively
- 12 low labor share in a given year, if we backtrack them
- 13 and forward-track them in time, they have a low labor
- 14 share for about, like, five to eight years, and then
- 15 that's it.
- Or because we know this is all driven by
- 17 relative prices, they have a relatively good time in
- 18 output markets for five to eight years, and then it's
- 19 over, then they, quote, unquote, go back to normal.
- 20 That might be part of the reason why they don't share
- 21 with their workers because it's relatively temporary
- 22 and they say, well, I could either expand, I could
- 23 hire more workers, but then five years down the road I
- 24 have to get rid of them again, and that's not that
- 25 trivial.

- I can also pay them higher wages now because
- 2 they're very profitable for me, but in a couple of
- 3 years I have to lower the wages again or I have to
- 4 kick them out. And so that might be one reason why
- 5 they don't share. Over time, these patterns have
- 6 become much more pronounced so these relative
- 7 differences of having, like, a couple of good years in
- 8 the goods market have become, compared to the peers,
- 9 relatively strong.
- 10 So to summarize, there is some more
- 11 evidence, which I want -- we'll skip now, but the --
- 12 to take away again, first of all, the concentration of
- 13 outputs in labor markets is not the same. It's not
- 14 exactly lockstep, and the reason is that they are
- 15 high-profitability firms that don't respond to good
- 16 profit conditions in terms of employment as they used
- 17 to. They also don't pay higher -- the wages that
- 18 these workers generate for them, and the reason why
- 19 they may not do that is because these are relatively
- 20 transient things.
- 21 The firms are engaged in a product market
- 22 product competition where they are relatively good for
- 23 a couple of years, then they are overtaken by someone
- 24 else. We see that eventually they might come back 15
- 25 years later, but there is this temporary oligopsony

- 1 power, which raises questions that we have to think of
- 2 and how that translates into the labor market.
- 3 So these are the basic -- the four main
- 4 points I wanted to raise and bring to the discussion.
- 5 And on that, I want to hand off to Ioana, who will
- 6 discuss more the labor market concentration.
- 7 (Applause.)
- 8 MR. SANDFORD: Okay. Thank you, Matthias.
- 9 We will hear from Ioana Marinescu.
- 10 MS. MARINESCU: Good morning, everyone, I am
- 11 very happy to be here and talk to you about the
- 12 economic evidence for labor market monopsony and what
- 13 the role of antitrust is in all of this. And first of
- 14 all, just most of you are aware here, but for some
- 15 people who might be listening to us on the web, it's
- 16 important to remind ourselves the role of context here
- 17 for antitrust.
- 18 There is a legal significance of labor
- 19 market concentration because the same
- 20 Herfindahl/Hirschman threshold that is being used to
- 21 assess, for example, mergers, applies to seller and
- 22 buyer power. So one way to frame this is that for the
- 23 purposes of antitrust, when we are looking at the
- 24 labor market, we are looking at buyer power as one
- 25 particular example of buyer power.

- 1 And so in my work, in my recent work, I have
- 2 been calculating HHIs for the labor market. And as
- 3 others have pointed out, this raises the interesting
- 4 and difficult question of defining a market because
- 5 when you want to calculate an HHI you want to know
- 6 what the relevant market is.
- 7 So our working definition of labor market is
- 8 a combination of occupation, which would define at the
- 9 SOC-6, which is a fairly detailed occupational
- 10 classification comprising 820 roughly occupations,
- 11 commuting zone, and quarter. So for example, given
- 12 that my data is going to be based on job vacancies,
- 13 this would be, for example, job vacancies for
- 14 registered nurses in Washington, DC in the first
- 15 quarter of 2016.
- And so briefly, why vacancies? Vacancies
- 17 are highly relevant for unemployed job seekers, the
- 18 point being that even though there might be employment
- in many companies, what is of highest relevance to the
- 20 unemployed job seekers is what companies have openings
- 21 or are recruiting right now, hence the relevance of
- 22 vacancies to understand the degree of labor market
- 23 competition as faced by unemployed job seekers.
- 24 So in this first paper that I'm talking
- 25 about here, we are using data from Burning Glass

- 1 Technologies. This is coauthored work with Jose Azar,
- 2 Marshall Steinbaum, and Bledi Taska, and this data set
- 3 comprises all -- essentially all online vacancies in
- 4 the U.S., which itself represents more than 80 percent
- of the actual job vacancies in the economy.
- 6 So using the definition of the labor market
- 7 that I outlined before, which again reminds ourselves
- 8 that's a commuting zone by quarter, by occupation, we
- 9 can, for example, draw a map of the average
- 10 concentration by commuting zone. And, you know, if
- 11 you just look at every market, defined in this way in
- 12 the U.S., you find that 60 percent of U.S. labor
- 13 markets are highly concentrated, meaning that they
- 14 have an HHI above 2,500 or the equivalent of four
- 15 employers recruiting with equal shares.
- On average, if you take the average, in
- 17 fact, there's only about two employers recruiting with
- 18 equal shares at any point in time. Now, this
- 19 situation differs a lot with geography. So what this
- 20 map shows you is that the levels of concentration are
- 21 very high in less densely populated areas, mostly in
- 22 the middle of the country, and if you look at where we
- 23 are here on the East Coast, you see a big green band
- of low concentration because that's where some of the
- 25 most densely populated areas are, and, therefore, on

- 1 average, you tend to see a lower concentration even
- 2 though even there there is variation and some
- 3 occupations can be highly concentrated.
- 4 So, therefore, because of this difference by
- 5 population density, it is also the case that labor
- 6 market concentration, even though 60 percent of U.S.
- 7 labor markets are highly concentrated, this affects
- 8 about 20 percent of workers who work in 60 percent of
- 9 highly concentrated markets. Of course, for antitrust
- 10 purposes, it is enough to find one market that is
- 11 substantially affected, so I think the 60 percent is
- 12 relevant but when we are trying to explain likes
- 13 things like the labor share, then we ought to pay
- 14 attention to how many workers are affected by this
- 15 degree of concentration.
- 16 So the second headline finding is that
- 17 higher concentration is associated with lower wages.
- 18 So to look at this, we use a different data set which
- 19 is from CareerBuilder.com. This is the largest online
- job search engine, together with Monster, captures
- 21 about a third of U.S. vacancies. So using this data
- 22 set, we find that a 10 percent higher HHI is
- associated with a 0.4 percent to 1.5 percent lower
- 24 posted wages. So these are the wages that companies
- 25 say they're willing to pay in their ads.

- 1 Furthermore, people have, you know, after we
- 2 got this working paper out, it became, you know, a
- 3 whole team of other people reached out and did similar
- 4 research, and two independent studies with different
- 5 data and different market definitions confirm a
- 6 negative association between wages and concentration.
- 7 One paper by Benmelech and another one by Rinz which
- 8 just came out very recently, only a week ago or so.
- 9 So this is the broad picture of what's been
- 10 found so far regarding the level of concentration and
- 11 the association of concentration with wages. I want
- 12 to raise some issues and talk to you about how I think
- 13 we're at in terms of addressing those issues. The
- 14 first one is, and that's a classic, how sure can we be
- 15 that concentration decreases wages? Is it really that
- 16 it's concentration, per se, that it is causing lower
- 17 wages, or are there some other factors that the
- 18 analysis hasn't accounted for that might lead to lower
- 19 wages, even though concentration itself is not
- 20 responsible for that?
- 21 And, you know, first of all, it's important
- 22 to note that HHI is only a proxy for labor market
- 23 power. Alan Krueger, you know, helped us see the
- 24 bigger picture, and HHI can be correlated with other
- 25 factors, potentially unrelated to market power, that

- 1 also lower wages.
- 2 So what can we do to, you know, assuage our
- 3 concerns that these other factors might be driving the
- 4 relationship? So the negative coefficient of HHI on
- 5 wages is robust to a number of controls. So first of
- 6 all, one concern is that maybe labor market
- 7 concentration is high simply when there are few
- 8 vacancies, so when the labor market is down, there's
- 9 fewer vacancies, and that mechanically could lead to
- 10 higher concentration.
- 11 So in our paper, we actually are able to
- 12 control for the state of the labor market. With a
- 13 time-varying measure, we control for labor market
- 14 tightness, so the total number of vacancies in the
- 15 market divided by the total number of applications.
- 16 And this is a very, you know, good summary statistic
- 17 for the state of the labor market as we learn from
- 18 search and matching theory.
- 19 The second thing we do is we instrument
- 20 labor market concentration essentially by the number
- 21 of firms in other markets, and this other paper by
- 22 Rinz also does that. The results survived there. In
- 23 fact, the coefficient gets bigger. And, finally, you
- 24 might also be concerned that as the correlation
- 25 between concentration and firm productivity, so in

- 1 this other paper by Benmelech, they also controlled
- 2 for firm productivity using firm data and they still
- 3 find a negative association between HHI and wages.
- 4 So, overall, I would summarize this as
- 5 saying that these are not perfect experiments. It is
- 6 very hard to, you know, find a crystal-clear case of
- 7 HHI being quasi-experimentally assigned, but the
- 8 evidence is pretty consistent and robust to a number
- 9 of concerns.
- 10 The second issue now I am moving on to the
- 11 issue of market definition. So obviously this is a
- 12 tough problem that we need to -- a tough nut we need
- 13 to crack, what exactly is a labor market? How are we
- 14 going to define it? So first, just note that even
- 15 though the three studies I mentioned in the prior
- 16 slide use different market definitions, some use like
- 17 my own occupations, others use industries, some use
- 18 counties, some use commuting zone, you find a
- 19 consistent negative association between wages and HHI.
- 20 So the exact market definition doesn't
- 21 really matter in terms of the general pattern of
- 22 finding a negative association between wages and HHI.
- 23 Of course, the definition will matter for the level of
- 24 HHI. So if you're going to use HHI thresholds, now it
- 25 really matters how you define your market because the

- 1 level of HHI could be very different. So to do that,
- 2 and the reason why we chose our definition, is we used
- 3 a labor market version of the SSNIP test. So the
- 4 intention for this is that if the elasticity of labor
- 5 supply is below some critical elasticity, the market
- 6 is well defined, and otherwise it's too broad.
- 7 And really the intuition for this is to say
- 8 that if labor supply elasticity is really low, then
- 9 firms are able to suppress wages without losing many
- 10 employees, and thereby it can be profitable to do so,
- 11 whereas if labor elasticity is very high, it is not
- 12 profitable to suppress wages because you would lose
- 13 too many employees. And, so we do have very good
- 14 evidence, actually, on the labor supply elasticity to
- 15 the individual firm.
- It's typically below two, and a very recent
- 17 experiment in online environments, where you would
- 18 think that there are essentially zero frictions, it's
- 19 super easy to find another job. Even there, the
- 20 elasticity is only 0.1 for an online job, right? So
- 21 there is no moving costs. In principle, you can look
- 22 for a job, and even there, there is very little
- 23 reaction of workers to differences in wages.
- 24 So basically, low labor supply elasticity is
- 25 strong evidence for imperfect competition or monopsony

- 1 as Alan Krueger pointed out in his introductory
- 2 remarks. And so if we have such a low labor supply
- 3 elasticity to the individual firm, this suggests that
- 4 even the individual firm in some cases can be
- 5 considered a market in itself. It already has enough
- 6 market power by itself to be a market. So, therefore,
- 7 an SOC-6 by commuting zone by quarter is likely to be
- 8 too conservative from that perspective.
- 9 And so, finally, the last point is how does
- 10 that apply to merger analysis in particular? So the
- 11 FTC already has a policy to analyze mergers based,
- 12 among other things, on product market concentration,
- 13 so HHI in the product market. So the question is, do
- 14 we even need to worry about the labor market? Maybe
- these are perfectly correlated, and so if we worry
- 16 about the product market, the labor market will take
- 17 care of itself.
- But the point is, a separate labor market
- 19 analysis, we think, is needed because a firm, for
- 20 example, that sells in the national market can have
- 21 little product market power but a lot of labor market
- 22 power in local areas right where it hires most
- 23 workers. So in the meantime, I've done some quick
- 24 calculations to get you some examples.
- 25 So I have looked at manufacturing industries

- 1 with more than a \$100 million in sales annually, so
- 2 very big industries. And so an example is on the one
- 3 end you have the car industry. There, it's relatively
- 4 highly concentrated in the product market at the
- 5 national level, but relative toward the industries,
- 6 it's pretty low concentrated for workers.
- 7 On the other end of the spectrum, another
- 8 example is iron and steel. Iron and steel has very
- 9 low concentration as per HHI sales at a national
- 10 level, but extremely high concentration compared to
- 11 other industries in terms of the labor market
- 12 situations that workers are facing in those different
- 13 markets where I define markets as before by
- 14 occupation, CZ, quarter, et cetera.
- So I am running out of time, so just to tell
- 16 you that in my paper with Herb Hovenkamp, we discuss
- 17 how labor market affects can be incorporated in the
- 18 merger review using the HHI thresholds, and we also
- 19 discuss the significance of anti-poaching and
- 20 noncompetition agreements that Alan talked about.
- 21 So just last point about anti-poaching,
- 22 anti-poaching agreements are very interesting because
- 23 the existence of an anti-poaching agreement
- 24 establishes that, one, firms are competing in the same
- 25 labor market, otherwise what's the point of agreeing

- 1 not to poach? And, two, that collusion is profitable,
- because, you know, if it weren't then, again, what's
- 3 the point to poach since other firms in the market,
- 4 you know, would take workers away from us anyway. So
- 5 that can be a good way of going at it if we don't know
- 6 what the market is, but we have evidence that there is
- 7 an anti-poaching agreement. That's a good argument to
- 8 use in that context.
- 9 So in conclusion, we found that the majority
- 10 of U.S. labor markets according to our favorite
- 11 definition of highly concentrated, although as others
- 12 have said I think more work is needed in refining the
- 13 definition of a labor market, we and others have found
- 14 that labor market concentration is associated with
- 15 lower wages, and antitrust enforcement can use this
- 16 evidence and readily take into account these
- 17 anticompetitive effects on the labor market by
- 18 adapting existing tools that have been used for a long
- 19 time for the product market. Thank you.
- 20 (Applause.)
- 21 MR. SANDFORD: Thank you, Ioana. And let me
- 22 take this opportunity to remind people in the room you
- 23 will have a chance to ask questions of the panelists
- 24 if you wish to do so. We will have FTC staffers
- 25 walking around with comment cards, so just flag one of

- 1 them down and write your question on it. We'll get it
- 2 passed up to Devesh and I, and we'll see if we can ask
- 3 it.
- 4 Okay, with that, we'll now hear from Nancy
- 5 Rose.
- 6 MS. ROSE: I want to thank you for the
- 7 invitation to participate in these hearings, and I am
- 8 delighted that the FTC is focusing attention on
- 9 upstream harm, whether that is from buy-side mergers
- 10 or anticompetitive actions of buyers, something that I
- 11 worked on during my service in the DOJ Antitrust
- 12 Division. I am proud to have been involved in the
- 13 challenge to the Anthem-Cigna merger, in which DOJ
- 14 included an allegation of upstream harm to healthcare
- 15 providers, resulting from the elimination of
- 16 competition between Anthem and Cigna as buyers of
- 17 healthcare services.
- 18 I met with others across the administration
- 19 to discuss labor market competition and its crucial
- 20 role in the welfare of workers and economic growth.
- 21 And I was privileged to work with both economists and
- 22 lawyers at the DOJ Antitrust Division and the FTC in
- 23 drafting and issuing the October 2016 antitrust
- 24 guidance for human resource professionals that Alan
- 25 alluded to earlier, which emphasized not just the

- 1 illegality of wage-fixing. There had been already
- 2 government enforcement actions in that space prior to
- 3 this against colluders, but more significantly
- 4 announced DOJ's intent to pursue criminal action
- 5 against naked wage price -- wage-fixing or no-poach
- 6 agreements.
- 7 Those experiences motivated my contribution
- 8 to the analysis that Scott Hemphill and I developed on
- 9 mergers that harmed sellers, which Scott testified so
- 10 eloquently on during the hearing on monopsony and
- 11 buyer power last month. And I thought that was an
- 12 extraordinarily interesting session, and I look
- 13 forward to the rest of today's discussion, which
- 14 focuses on one particular group of buyers, mainly
- 15 workers -- I'm sorry, one particular group of sellers,
- 16 namely workers.
- I know my time management skills could use
- 18 some improvement, so I'm going to start with my
- 19 bottom-line conclusions so that I get those, get to
- 20 those by the end. And those are two. First, I would
- 21 sound a cautionary note on the conclusions that we can
- 22 draw at this point from the wealth of aggregate
- 23 studies of labor market outcomes. I think it's
- 24 terrific that empirical economists are focusing their
- 25 attention on these issues, both energizing and

- 1 informing the policy debate, but despite a wave of
- 2 academic research that shows aggregate declines in
- 3 labor share across the economy, growing wage
- 4 productivity gaps, and correlations between low wages
- 5 and measures of employer concentration either for a
- 6 given occupation code or within a given industry, I
- 7 think we're still a ways from being able to establish
- 8 a credible causal connection between low wages and
- 9 employer concentration, let alone a causal connection
- 10 between low wages and anticompetitive mergers.
- 11 Remember that the antitrust laws do not
- 12 reach the concentration, per se. They reached a
- 13 concentration that is accomplished either by an
- 14 anticompetitive merger or by anticompetitive what are
- 15 sometimes called monopolization or in this case
- 16 monopsonization practices. So at least for most
- workers in most settings, we're still a ways from
- 18 understanding what the cause of the correlation might
- 19 be, and I would just urge us to recognize that without
- 20 a cause we have a lot of trouble discerning the
- 21 appropriate solution.
- Second, so not to end on a totally bleak
- 23 note, I'm encouraged by a recent empirical study by
- 24 Elena Prager and Matt Schmidt on hospital mergers that
- 25 suggest that there may be at least modest adverse wage

- 1 effects for specialized occupations -- think nurses,
- 2 for example -- and skilled workers within that sector

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- 3 who are affected by a merger that substantially
- 4 increases concentration.
- I don't think we can yet be certain that the
- 6 impact they uncover occurs from a reduction in labor
- 7 market competition as opposed to a reduction in labor
- 8 demand -- I'll say more about that in just a moment --
- 9 that reduction in labor demand could result from
- 10 output restrictions due to greater market power by the
- 11 hospitals, pulling back their output and therefore
- 12 marching down a labor supply curve. Or it could be --
- arise from more efficient operations post-merger,
- 14 again, marching backward on the labor supply curve.
- Those have very different implications for
- 16 policy and antitrust enforcement, but I think that
- 17 this study is a compelling call not only for further
- 18 academic research in this spirit, what I might call
- 19 hand-to-hand combat as opposed to aerial strafing over
- 20 this landscape, but also for greater consideration in
- 21 select merger investigations where there may be
- 22 significant specialized occupations that are dependent
- 23 upon labor market competition between the merging
- 24 firms.
- 25 So why the caution in interpreting the

- 1 empirical labor economics evidence? The first thing I
- 2 would highlight is that monopsony may not be what you
- 3 think it is, particularly if you are coming to this
- 4 from a non-labor-economics background. I learned this
- 5 lesson the hard way, through talking past a group of
- 6 labor economists when they talked about monopsony and
- 7 I said no, no, no, that's not monopsony.
- 8 As Alan highlighted and I think quite
- 9 eloquently explained in his remarks, monopsony, as
- 10 frequently used in labor economics, is not necessarily
- 11 the mirror image of monopoly or oligopoly. Monopsony
- 12 may be used for many deviations from a perfectly
- 13 competitive outcome in labor market, not just those
- 14 that arise from having too few employers competing for
- 15 workers. That's quite different than the way
- 16 industrial organization economists and antitrust
- 17 enforcers tend to use the word "monopoly."
- 18 While monopsony could be a failure of
- 19 competition due to too few employers, it could also
- 20 reflect or instead reflect a wide range of frictions,
- 21 including information failures, search costs,
- 22 transaction costs, unwillingness to relocate,
- 23 idiosyncratic match quality, and so forth. And even
- 24 when monopsony may be due to too few employers bidding
- 25 for a set of potential workers, that situation may not

- 1 arise from any anticompetitive action by employers,
- 2 either mergers, which are actionable under the Clayton
- 3 Section 7; collusion, which is actionable under
- 4 Sherman Section 1; or attempted monopsony behavior
- 5 actionable under Sherman Section 2.
- 6 What that means is that antitrust
- 7 enforcement is going to be neither an effective nor an
- 8 appropriate tool to address most of those frictions.
- 9 Moreover, some of those work against the existence of
- 10 and certainly against the argument of monopsony power
- in what I'll call the classic IO sense of monopsony,
- 12 too few employers, because if wages are customized to
- 13 individuals, for example, then there is no effect of a
- 14 merger. If each firm is a monopsonist to the workers
- it employees, mergers don't have any further
- 16 anticompetitive effect. So I think we really need to
- 17 think very carefully about how these different pieces
- 18 fit together.
- 19 But as I said, one of my big concerns is
- 20 that we don't even know from the empirical evidence
- 21 yet whether the correlations between wages and
- 22 measures of employer concentration, what the
- 23 implications of those are or whether they are causally
- 24 related to competition. And to explain that, I
- 25 thought it might be useful to take a look at a graph

- of supply and demand in a labor market, so if you
- 2 could just -- I don't have the clicker -- just flip to
- 3 the next one, that would be great.
- 4 All right, so this is a little bit messy,
- 5 apologies to those of you who aren't economists or
- 6 even to those of you who are. But suppose we have
- 7 upward-sloping labor supply curve. That's the red
- 8 curve that slopes upward, and that seems plausible.
- 9 In most cases, we would think that higher wages are
- 10 going to elicit more workers willing to work. With
- 11 high labor demand, that's, for example, the downward-
- 12 sloping blue curve on this graph, wages are higher
- 13 than they will be with low labor demand, the red
- 14 downward-sloping curve on this graph.
- 15 That's true whether markets are competitive
- 16 and wages are just determined by the employment level
- 17 where labor supply intersects with labor demand, the
- 18 label "competitive" shows low labor demand in
- 19 intersecting with the labor supply curve, but it's
- 20 also true if employers are behaving monopsonistically,
- 21 which I'm representing by the blue upward-sloping
- 22 curve.
- 23 So in either case, higher labor demand is
- 24 going to be associated with higher wages, lower labor
- 25 demand with lower wages. Now, why does that matter?

- 1 It matters because we can't just tell, I think, from a
- 2 correlation between the number of employers or an HHI
- 3 of employers and the wage rate what's going on.
- 4 Suppose that we are in a market where a new employer
- 5 moves into the area, shifting out labor demand, so
- 6 moving from low to high. Wages go up and measured
- 7 concentration goes down. That's the concentration is
- 8 coincidental with the wage change. What's changing
- 9 the wages is an increase in labor demand. Or suppose
- 10 a firm shuts down a factory. Labor demand and wages
- 11 will both fall, as will employment; employer
- 12 concentration will rise.
- 13 We can't tell from these sets of facts or
- 14 these correlations whether each employer is moving
- 15 along that red labor supply curve or they are moving
- 16 along a monopsonistic labor -- what I call marginal
- 17 labor cost monopsony curve. And I think that problem,
- 18 that identification problem, which is very similar to
- 19 what Steve Berry talked about in the first session
- 20 with respect to concentration studies in general, I
- 21 think that that's a fundamental problem. It's not
- 22 solved by instrumenting for HHI, with the inverse of
- 23 the number of firms.
- In the example I just gave you, it's a
- 25 change in the number of firms that's changing wages

1 and changing labor demand and changing concentration.

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- 2 It's not going to be solved by controlling for
- 3 tightness of the labor market, because if you are on
- 4 the labor supply curve, you don't have excess supply
- 5 of labor. You have as many people willing to work at
- 6 the going wage as is consistent with equilibrium. You
- 7 just don't know how you got to that equilibrium,
- 8 competition or monopsony. And it's probably not going
- 9 to be solved for by a control for firm productivity.
- I don't want to be too harsh. IO economists
- 11 ran regressions like this for years, maybe decades,
- 12 making the same type of inferences from the results.
- 13 And it wasn't until the late 1970s and early '80s that
- 14 we began to recognize there was a fundamental
- 15 identification problem confronting these types of
- 16 analyses and have adapted now to different methods to
- 17 try and understand market power. But I think that's
- 18 important to recognize.
- 19 However, as I told you in my second
- 20 conclusion, I don't think this means that we should
- 21 just sit back and say we don't need to worry about
- 22 labor markets, far from it. The Prager and Schmidt
- 23 paper on hospital mergers exemplifies, I think, a
- 24 fruitful direction for scholars that are interested in
- 25 exploring the evidentiary foundation for employment-

- 1 based upstream challenges, and it suggests that
- 2 mergers that substantially increase concentration may
- 3 have wage effects, on the order of one to one and a
- 4 half percent lower wage growth per year for some
- 5 classes of workers.
- 6 And I think that this study might also point
- 7 at a kind of bridge to antitrust enforcement, which
- 8 is, they show those effects are -- appear for workers
- 9 in specialized occupations, so in the case of these
- 10 hospitals, think of nurses or physician's assistants
- 11 or radiologists, others that are specialized to
- 12 hospital settings, as well as skilled workers, and
- 13 they appear only for the most significantly
- 14 concentrating mergers, changes in the HHI of 3,000 or
- 15 more.
- 16 Now, I think that suggests that we probably
- 17 haven't missed anything in the hospital setting
- 18 because a delta HHI of 3,000 is going to get the FTC's
- 19 attention on the product market side. And we don't
- 20 need to allege labor market harm if we're blocking a
- 21 merger because of product market harm, which courts
- 22 are much more familiar with. I suspect the reason
- 23 they've got observations in their study is most of
- those seem to be very small communities during the
- 25 period when the FTC was having trouble getting courts

- 1 to agree with its challenges to hospital mergers,
- 2 which, thankfully, seems to be largely behind us at
- 3 this point.
- 4 But I guess I would just close by saying
- 5 it's important for us to identify where we might want
- 6 to add labor market analyses, so where there might be
- 7 -- where both firms in a merger are significant
- 8 employers of the same type of specialized labor, but
- 9 whose products may not be sell-side substitutes, as
- 10 Ioana mentioned in her remarks, or where those
- 11 products may not overlap enough to hit the horizontal
- 12 merger concentration threshold on the product side.
- 13 These could be even potential competition or
- 14 what we sometimes called complementary product
- 15 mergers, where you might think what the firms are
- 16 doing is similar enough that the employment pools
- 17 might be similar, but there wouldn't typically be an
- 18 immediate trigger on the product side. The reason I
- 19 think this is important is that agency enforcement
- 20 resources, as those at the FTC and the DOJ know well,
- 21 are quite limited, and if we tell agencies to add
- 22 extensive labor market analysis to most merger
- 23 investigations, we should recognize that we are
- 24 telling them to investigate and challenge fewer
- 25 mergers overall. In my mind, that tradeoff is not an

- 1 obvious improvement for workers, for consumers, or for
- 2 our overall society.
- 3 So the question is, how to target resources
- 4 most effectively so we are not missing anticompetitive
- 5 upstream harm mergers but without adding an entire
- 6 layer of complexity and additional analysis to all the
- 7 investigations that we decide to pursue or that
- 8 agencies decide to pursue.
- 9 MR. SANDFORD: Thank you, Nancy.
- 10 (Applause.)
- 11 MR. SANDFORD: Finally we will hear from Bob
- 12 Topel.
- 13 MR. TOPEL: Thanks for inviting me. You
- 14 know, I got to listen to everyone's comments, and I
- 15 can cross out a lot of things. I agree with Nancy, so
- 16 there's my overall comment. Alan and I have been
- 17 going to conferences like this for 35 years or so, and
- 18 Alan has a tendency to, whenever he sees a market
- 19 outcome, he can think of a way to fix it. And I guess
- 20 I've had a reputation for thinking that market
- 21 outcomes are sort of intrinsically less fixable.
- Now, part of the reason I am probably here
- 23 is that I have some experience with some of the cases
- 24 that have been referred to. I worked on a little bit
- 25 the high-tech case and without really revealing too

- 1 much about it, as Alan pointed out, the CEO of one
- 2 high-tech company called up and said let's not poach
- 3 the engineers of -- from each other.
- 4 Now, when you're teaching classes, you tell
- 5 your students, don't make that phone call. Just don't
- 6 do that, because even if you think it has some
- 7 procompetitive justification under Section 1, you're
- 8 likely to be in big trouble. The real question then
- 9 came down to -- in that kind of matter comes down to,
- 10 well, how much of an impact did that -- is that likely
- 11 to have in practice?
- 12 And it turns out instead of, you know, if
- 13 you're trying to define market in which people
- 14 competed, the diversion ratio, if you will, for FTC
- 15 and DOJ types of where people came from and where they
- 16 went, if they left these firms, was extremely diverse,
- 17 that people came from everywhere, there wasn't that
- 18 much -- before the challenge acts -- wasn't all that
- 19 much mobility between these employers. They were
- 20 coming from everywhere.
- 21 So it would appear that the consequences of
- 22 that action were pretty doggone small. But having
- 23 said that, you want to tell them, don't do that
- 24 because you're going to end up with a settlement of
- 25 the size that Alan referred to.

- 1 So are there antitrust issues in labor
- 2 markets? Well, of course, and you would think that
- 3 they would be -- they would be actionable under the
- 4 usual -- under the usual criteria of collusion or
- 5 unilateral conduct. I'll come back to those kinds of
- 6 things in a minute.
- 7 And so, yes to that question, and then the
- 8 second question you might ask is, does rising
- 9 monopsony power explain the evolution of relative
- 10 wages and the relative lack of success, in particular,
- 11 of less skilled individuals. I think the answer to
- 12 that is likely to be no. So I am going to differ with
- 13 Alan on that quite a bit.
- So in my view, the evidence for substantive
- 15 monopsony power that may be of antitrust concern is
- 16 pretty thin, both as an empirical matter and for --
- 17 and for the reasons that Nancy stated. Though I am
- 18 pretty skeptical of Ioana's evidence, and I'm going to
- 19 come back to that in a minute, suppose for the sake of
- 20 argument that she's right, that in all of those red
- 21 places on the map, they're kind of red politically and
- 22 they're red in her map because they're highly
- 23 concentrated. In these narrow occupations, employers
- 24 possess some monopsony power. Then you have to -- the
- 25 operative question is, well, what do you want to do

- 1 about that? How should the FTC or the DOJ concentrate
- 2 -- or use their resources in these cases?
- And it's true that you might want to be
- 4 alert to the possibility of anticompetitive conduct in
- 5 there, but as Nancy pointed out, merely the possession
- of some market power, which would here be a small
- 7 elasticity of labor supply to an individual employer
- 8 or group of employers, is not actionable in and of
- 9 itself. The possession of market power is not an
- 10 antitrust violation. There has to be some
- 11 anticompetitive conduct that goes along with it.
- 12 So you treat it much the way you would treat
- 13 any other case that -- it's just kind of Stigler's
- 14 theory of oligopoly applied to labor markets. There
- 15 are some plus factors, and if you've got scarce
- 16 resources, you might want to devote them to places
- 17 where you think anticompetitive conduct might arise.
- Now, Alan might argue that the putative
- 19 existence of monopsony power in those red places is a
- 20 reason for offsetting monopoly power in the form of
- 21 unions, and I don't think that's really -- it's
- 22 certainly not an antitrust concern. And the other
- 23 thing to note, though, is that unions have typically
- 24 been less powerful in exactly those places. And so,
- 25 and if it was a no monopsony -- and those patterns

- 1 have existed forever -- if it was really a monopsony,
- 2 you would expect that those would be the places where
- 3 unions would be most successful.
- 4 Now, Alan makes much of the existence of
- 5 franchise agreements and restrictions within franchise
- 6 agreements, and I got to read your paper yesterday so
- 7 I can -- I am going to comment a little bit on that,
- 8 and some of your comments sort of indicated that,
- 9 well, I can't think of a really procompetitive reason
- 10 for doing this. Now, if I had -- if I started Bob's
- 11 Excellent Hamburgers and I had two franchises, I would
- 12 probably tell my franchises, I don't want you
- 13 recruiting from each other. You know, you're
- 14 competing in the labor market.
- Well, why do I want to do that? Because
- 16 brand name matters a lot, and I am going to have all
- 17 kinds of vertical restrictions on what people can do
- 18 and how they can fix the hamburgers and how the store
- 19 is going to look. And one of the things I want my
- 20 employers to do is go out and find people, and going
- 21 out and finding people is hard, especially in a
- 22 business like that.
- I used to work in a grocery store, and one
- 24 of the things I learned is that 90 percent -- this
- 25 applies to a lot of things, 90 percent of success is

- 1 just showing up. And you want to find the people that
- 2 are just going to show up. That's an investment in
- 3 individuals. And if I -- if I allow my people to raid
- 4 each other, my franchisees to raid each other, there's
- 5 going to be a lot less incentive to invest in that
- 6 form of human capital. It's not the type of specific
- 7 human capital we usually think about, but it's really
- 8 important. Does it have much anticompetitive impact?
- 9 No.
- 10 And I read Alan's evidence that a lot of
- 11 franchises do this as more evidence that this has got
- 12 to have a good procompetitive reason. Small firms do
- 13 it, small franchises do it, large franchises do it.
- 14 Now, can it have some anticompetitive impact? If you
- 15 can prove that McDonald's is a valid labor market for
- 16 antitrust purposes, then it might, so you've got to
- 17 weigh, as always, the anticompetitive effects against
- 18 the procompetitive effects when you're talking about
- 19 unilateral conduct.
- Now, let me come to a little -- just discuss
- 21 briefly some of Ioana's evidence that -- sorry, Ioana,
- 22 I'm not buying. And let me find my notes here. So if
- 23 you'll recall her map, we don't need to put it back
- 24 up, we had red states and green states. And one of
- 25 the examples I used to give back when we were talking

- 1 about efficiency wages and people saying, well, you
- 2 know, some firms pay much more than others, is if you
- 3 think about -- think about the market for economists.
- 4 And there's -- out in Lincoln, Nebraska, which would
- 5 be a commuting zone, there's basically one place where
- 6 a professional economist can work, and the Herfindahl
- 7 is going to be really doggone high, and if you go off
- 8 to Boston, it's going to be really low.
- 9 Well, the average productivity of the
- 10 economist in Boston is substantially higher than the
- ones in Lincoln, Nebraska. And so you're going to
- 12 expect wages to differ in that regard. So my point is
- 13 that a lot of the differences that you see simply have
- 14 to do with the composition, even within the skill
- 15 composition even within these groups.
- 16 Now, in reality, that picture doesn't have
- 17 any impact on Ioana's real evidence. She has that
- 18 picture that shows that those markets are more
- 19 concentrated, the red ones out in the Midwest. Or out
- 20 on the plains. They're more concentrated. And the
- 21 ones in Chicago and Boston, in and around San
- 22 Francisco, you kind of expect that.
- 23 And then she's got a graph showing that
- 24 wages go down as concentration goes up, using that
- 25 cross-sectional evidence, but the evidence you really

- 1 use is within, changes within. And it is worthwhile
- 2 keeping in mind that she's got data from 2010 to 2013,
- 3 which is a very short period of time, and she runs her
- 4 regression because it's got fixed effects.
- 5 You're only using the within -- the within
- 6 commuting zone variation, and what she finds is that
- 7 for OLS, changes in that concentration have a small
- 8 impact on wages, about 3 percent. And as Nancy
- 9 pointed out, a lot of that can come from the fact that
- 10 when another firm enters you've got greater labor
- 11 demand and wages may rise, especially because this is
- 12 a short run elasticity.
- 13 And then she -- now, oh, and by the way, how
- 14 big is that 3 percent? Well, the mean HHI in her data
- is about 3,300 or 3,200, something like that, and a
- 16 change in the log of one is going to be 2.7 times
- 17 that, it takes you up to almost pure monopsony. So
- 18 that would be a huge change, and it gives you 3
- 19 percent. If that were the impact, it would not be
- 20 worth the attention of the antitrust authorities to go
- 21 chasing that.
- 22 On the other hand, she has an instrumental
- 23 variables regression where the impact of a unit change
- 24 in the log of the HHI is on the order of 11 to 14
- 25 percent. Now we're talking about something that might

- 1 matter. On the other hand, what is that instrumental
- 2 variable picking up? It's the instrumental variable
- 3 is itself the change in the number of firms and a lot
- 4 of other places, and so the regression that she runs
- 5 is how much of the within this place -- within this
- 6 area change in the HHI is explainable by changes in
- 7 the number of firms being created in other places,
- 8 which is to say you're picking up aggregate demand
- 9 effects, and those are much likely to be much larger.
- 10 So the argument that these findings are due
- 11 to monopsony power strikes me as pretty doggone weak.
- 12 So I am going to leave my comments there. And I look
- 13 forward to our discussion.
- MR. SANDFORD: Thank you, Bob.
- 15 (Applause.)
- 16 MR. SANDFORD: Okay. We'll now move on to
- 17 the Q&A portion of our panel, and once again, let me
- 18 remind those of you in the room that there will be FTC
- 19 staffers walking up and down the aisles to collect any
- 20 questions we may have from the audience.
- Okay, I'd like the first question to go to
- 22 Ioana. Ioana, Nancy, and Bob both expressed some
- 23 skepticism of the current state of research, including
- 24 your own papers, of course. Nancy sounded a
- 25 cautionary note that we may not be there yet in terms

- of having a causal connection between concentration
- 2 and wage, suggested that concentration is not
- 3 necessarily of direct relevance to antitrust, given
- 4 what we have control over and what we don't.
- 5 Bob suggested a variation between Lincoln,
- 6 Nebraska and Boston, Massachusetts might be explaining
- 7 some of the results that you find. Would you like to
- 8 respond to any of this?
- 9 MS. MARINESCU: Yes, I'd love to. Thanks so
- 10 much for your thoughtful comments, both of you. So
- 11 let me start with Bob's points. As Bob accurately
- 12 pointed out, our regression does not rely on comparing
- 13 Nebraska with Boston or, you know, Chicago, but relies
- 14 on changes over time in the HHI within a given market,
- 15 namely, an occupation by commuting zone. So that's
- 16 the variation.
- 17 Now, it's true that this could still be
- 18 driven by labor demand as both Nancy and Bob have
- 19 pointed out, and what we do is control for labor
- 20 market tightness, and that, I understand Nancy's
- 21 point. I think in the end what you should control for
- 22 and how to interpret it depends on your specific
- 23 model, so, for example, under perfect, you know,
- 24 competition, workers indeed will also be less likely
- 25 to apply if wages are lower, but we've seen that the

- 1 elasticity of labor supply is very low. So if that's
- 2 the case, you know, tightness would not react much on
- 3 the worker side. It might react on the firm side.
- 4 But this is something that in any case needs
- 5 more investigation, and that's why I have started --
- 6 you know, Steve Berry, in the same hearings, made a
- 7 similar comment, and we reached out to him and
- 8 actually we are starting a paper together, you know,
- 9 trying to do better on that front by using some of the
- 10 tools that IO has developed in the meantime to address
- 11 precisely some of these issues. So stay tuned.
- 12 Hopefully we can do better there.
- 13 Now, there is another evidence that -- there
- 14 is another point that Bob made, which is regarding the
- 15 IV, so it is true that it could be correlated with,
- 16 again, labor demand at the national level. One thing
- 17 we do is that we, in our OLS, we can control for
- 18 occupation by time fixed effect, thereby absorbing
- 19 some of the national changes in labor demand for each
- 20 occupation.
- 21 And that doesn't affect at all the effect of
- 22 our concentration in the OLS, so it's just one
- 23 particular way of controlling for time-varying changes
- 24 in demand in the occupation level. So this is
- 25 reassuring, but granted, you know, it's the usual

- 1 discussion of omitted variable bias. You know, it's a
- 2 little bit hard to be foolproof there.
- 3 MR. TOPEL: Ioana, let me just clarify
- 4 something about that.
- 5 MS. MARINESCU: Yeah.
- 6 MR. TOPEL: In the IO estimates, you're
- 7 using the portion of the within region or within
- 8 commuting zone variation that's predictable by the
- 9 national changes. So that says that this part is
- 10 predictable by what's happening everywhere else. So
- 11 you'd expect -- what you'd expect to find is that the
- 12 idiosyncratic parts that allow people to move across
- 13 areas is going to have a small impact on wages because
- 14 people are mobile. On the other hand, if everybody is
- 15 moving together, you'd expect a larger wage impact,
- 16 and that's exactly what you get.
- MS. MARINESCU: Right. And so in the new
- 18 version of the paper, we do a bounding exercise, which
- 19 I am not going to bore you with, but, you know, if the
- 20 variable instrument is partially endogenous, there is
- 21 a way to give bounds, and, you know, we find that even
- 22 if it's quite endogenous we still find the negative
- 23 effect. Of course, the magnitudes change.
- Now, what we can bring to the analysis is
- 25 rely on the new analysis by Prager and Schmidt, which

- 1 I think is fascinating on the mergers in the
- 2 healthcare industry. And there, the nice thing about
- 3 their work is that, well, you know, as Nancy pointed
- 4 out, we are using these HHIs everywhere, which is kind
- of nice in a way because we're capturing everything.
- 6 But the big downside is that we don't really -- we
- 7 can't really account for what's truly going on.
- 8 Why is HHI changing in a given market? Who
- 9 knows, right? So that's a problem, and in the study
- 10 of healthcare mergers, like the one by Prager and
- 11 Schmidt, at least we can have a better handle on
- 12 what's really going on, what's causing these changes
- in HHI.
- 14 And I think their study is quite nice
- 15 because it's able to do a good job, I think, of
- 16 accounting for some of these demand effects. For
- 17 example, they look at whether there are pre-trends in
- 18 wages before the merger happens, which might happen if
- 19 there was a demand shock that occurred prior to the
- 20 merger, and they don't find any evidence of that.
- 21 They also looked at the effects on wages of
- 22 out-of-market mergers, so mergers between companies
- 23 that don't, you know, happen to overlap in markets.
- 24 Those mergers don't have an effect on wages. Or the
- 25 effect of mergers that were blocked, also no effect on

- 1 wages. So I think this is somewhat reassuring that it
- 2 is not some, you know, labor demand shock that is
- 3 driving the effects that they are talking about. So I
- 4 think that is about it. Thank you.
- 5 MR. RAVAL: So this is to Alan and Bob.
- 6 So imagine you have a policymaker that's concerned
- 7 about either the falling labor share or the stagnating
- 8 wage. How would you rank the different policy tools
- 9 that might affect these, and where would antitrust
- 10 enforcement, either on conduct or mergers, rank in the
- 11 list?
- 12 MS. MARINESCU: Bob. Do you want to go
- 13 first?
- MR. TOPEL: The question was for Alan and
- 15 me?
- MR. REVEL: Yeah, but --
- 17 MR. TOPEL: And the question was what
- 18 policies would affect labor share?
- MR. KRUEGER: And wages.
- 20 MR. TOPEL: And wages? First of all, I'm
- 21 not convinced that labor share is the thing we ought
- 22 to be looking at. I mean, there's often been a lot of
- 23 confusion about the decline in labor share and the
- 24 changing welfare of workers. If, for example, the
- 25 price of capital declines, that there is some evidence

- 1 for or at least prices of certain types of capital
- 2 declines, or if there is capital bias technological
- 3 change which is equivalent, and if the elasticity of
- 4 substitution is a little bit above one, you get a --
- 5 you'll get a decline in labor share of national
- 6 income, but there is more capital, and all -- and the
- 7 workers get more capital to work with.
- 8 So the marginal product of labor is going to
- 9 rise. Now, it's true, that might take a few years to
- 10 play out, but simply a decline in labor share of
- 11 national income is not an indicator of welfare or
- 12 monopsony power or anything like that. So would I
- 13 want policies that are targeted at labor share? No.
- MR. KRUEGER: How about wages?
- MR. TOPEL: Are there policies that could
- 16 affect wages? Sure.
- 17 MR. KRUEGER: That was the question.
- MR. TOPEL: Okay. Yeah, what would
- 19 happen to the wage -- people say at the bottom of
- 20 the wage distribution. Well, in my view, a lot of
- 21 what's happened is that -- is due to skill-biased,
- 22 technological changes. It's been very disadvantaged
- 23 -- disadvantageous to people at the bottom of the wage
- 24 distribution. Interventions there are likely to make
- 25 human capital even more scarce than it was before.

- One solution would be an immigration policy
- 2 that put more emphasis on changing the skill ratio
- 3 itself because that's been a big disadvantage to less
- 4 skilled people.
- 5 MR. KRUEGER: Why don't I respond a little
- 6 more generally to what Bob said earlier as well as
- 7 answering the questions. I agree with Bob on labor
- 8 share. I think if we focus on policies to raise wages
- 9 that will probably end up raising labor share. In the
- 10 short run, having a strong macroeconomy seems to be
- 11 the best advice. Of course, you don't want to
- 12 overheat the economy and have another crisis like we
- 13 had ten years ago. But since the work of Arthur Okun
- on a high-pressure economy, that seems to help people
- 15 particularly at the bottom over the long run. I agree
- on human capital investment, preschool, help for post-
- 17 secondary education and so on.
- 18 I think there is a lot of common ground
- 19 between Bob and me in that we both would like to see a
- 20 competitive labor market. I think the difference is I
- 21 have my doubts about how competitive it is to begin
- 22 with. In fact, the graph that Nancy showed with the
- 23 upward-sloping supply curve, to labor economists,
- 24 that's actually quite controversial in that the
- 25 explanation for industry wage differences is that

- 1 there are different supply conditions to different
- 2 industries.
- We don't have the law of one price, and the
- 4 model that you graphed, you've got, you know, very
- 5 different markets for homogeneous labor. That's the
- 6 way I was reading what you showed. Or in any event,
- 7 you know, labor economists will call anything where
- 8 there is an upward-sloping labor supply curve
- 9 monopsony. It doesn't matter to us how we got there
- 10 because you get monopsony-like effects, which is why
- 11 Alan called his book Dynamic -- or Monopsony in Motion
- 12 because the search frictions give individual firms an
- 13 upward-sloping supply curve.
- 14 And in that kind of an environment, the
- 15 existence of noncompete agreements and no-poaching
- 16 agreements can have an effect on wages, whereas if you
- start from a model where you've got an infinitely
- 18 elastic labor supply curve, which is the competitive
- 19 model, those agreements wouldn't really matter because
- 20 workers are just paid the same wherever -- wherever
- 21 they're working.
- Bob, I think unfairly, said that I look for
- 23 government interventions to solve these problems.
- 24 Some are no doubt beyond the reach of antitrust
- 25 policy. I haven't been an expert in any of these

- 1 cases, so I don't have the insights that an expert
- 2 might have. I also don't have the potential conflicts
- 3 that an expert might have.
- 4 MR. TOPEL: I was teasing you, Alan.
- 5 MR. KRUEGER: I wasn't referring to you, per
- 6 se.
- 7 MR. TOPEL: You said unfairly. I was
- 8 teasing you.
- 9 MR. KRUEGER: Oh, okay. Anyhow, you know,
- 10 in some of these cases, it's pretty clear what the
- 11 loss is to the workers. If a hospital reaches out
- 12 because they have vacancies because they have colluded
- 13 with other hospitals about hiring, and they pay \$40 to
- 14 temporary nurses and the staff nurses are paid \$30,
- 15 that suggests that the marginal product of the nurses
- 16 is at least \$10 higher.
- I agree that in some situations having
- 18 bilateral monopoly would be a better solution, you
- 19 know, having more labor unions. I agree with what
- 20 Nancy said about antitrust having to think about how
- 21 to use its limited resources.
- I also wonder, and I don't know how common
- 23 this is, since this is not my field, if you have a
- 24 case which is on the margin on the product market
- 25 side, if the labor market side could put that over the

- 1 top, that if you take labor market side in addition to
- 2 the product market side into account, so it could
- 3 potentially end up blocking more mergers that are
- 4 harmful to workers and to consumers if the labor
- 5 market side is added to the equation as opposed to
- 6 focusing exclusively on the product market side.
- 7 And I am a bit confused about Bob's argument
- 8 on Steve Jobs who told Google if you hire any of my
- 9 workers this means war, that Bob would recommend that
- 10 that's not a good thing to say and it's not a good
- 11 practice to put in place. But then when it comes to
- 12 no-poaching agreements, he said they're fine, they
- 13 could be in contracts.
- 14 And the argument that Bob gave about the
- 15 brand value, I think, is an argument based on
- 16 anticompetitive rationale. You want the franchisees
- 17 to hire good workers, and you want to pay them less
- 18 than they could get elsewhere, and you say to them,
- 19 you may add value to our brand, but the only place you
- 20 could go is outside our brand, we're not going to let
- 21 you go to another establishment within our brand.
- So, again, I'm not an expert in these cases
- 23 but I would think that that's an argument that this is
- 24 an anticompetitive practice, rather than a business
- 25 justification that would pass muster under the law.

- 1 MR. TOPEL: I'll just say that you were
- 2 unfair there, but let's keep going.
- 3 MR. SANDFORD: Okay, next question.
- 4 MS. ROSE: Could I -- since I'm implicated
- 5 in Alan's remarks, do you mind if I weigh in on that?
- 6 MR. SANDFORD: Sure.
- 7 MS. ROSE: So two things I wanted to say.
- 8 So first, working in reverse order, two weak antitrust
- 9 cases do not a successful challenge make. So I think
- 10 if the question was, is there a strong labor market
- 11 case and a product market case that might not be as
- 12 strong, and that was why I gave it the -- touched at
- 13 the end about maybe a potential competition or a
- 14 complementary product merger, where it's very hard, as
- 15 the FTC knows well, to successfully challenge on
- 16 potential competition grounds. If there were a strong
- 17 labor market case, you might bring that challenge and
- 18 bring it successfully.
- 19 We don't know because courts have not yet
- 20 decided a merger, even on a buy-side, a litigated
- 21 merger, even on a buy-side harm that doesn't involve
- labor market but other suppliers, we don't know how
- 23 they'd respond to labor market. It would be a
- 24 challenge, but it's probably one that's worth
- 25 exploring and testing and developing.

- But to say, you know, the product market's
- 2 at the margin and the labor market's at the margin, I
- 3 don't think you bring that case because you have the
- 4 potential not only to go down but for bad law to be
- 5 made as well.
- 6 MR. SANDFORD: Okay, next question. So Bob
- 7 just said that in his view the labor share doesn't
- 8 really matter, it should not be a concern of
- 9 policymakers directly. Yet, Ioana's work, the
- 10 Benmelich paper and the 2016 CEA report on labor
- 11 monopsony all cite the declining labor share as a
- 12 motivating fact.
- So let me read from Marinescu and Hovenkamp,
- 14 "The share of GDP going to labor has been declining at
- 15 an alarming rate. This may result from several
- 16 things, including suppression of unions and increasing
- 17 concentration in product markets, but lax antitrust
- 18 enforcement could be a major source as well."
- 19 So the first question is, should we care
- 20 about the declining labor share; and the second
- 21 question is, well, while Matthias just presented
- 22 results that suggest a decline in labor share is due
- 23 primarily to a reallocation of production to superstar
- 24 firms, and that's -- that seems to me to be an
- 25 explanation that is perhaps orthogonal to antitrust,

- 1 would you agree with that characterization, and do
- 2 Matthias' results cause you to update any priors about
- 3 how concerned we should be about labor market
- 4 monopsony. So let me ask Ioana that question first,
- 5 and then anyone else that wants to weigh in can do so.
- 6 MS. MARINESCU: Right. So this evidence has
- 7 been coming up. Between when I wrote this and now,
- 8 we've had more evidence, for example, about trends in
- 9 labor market concentration, which we didn't have at
- 10 the time, and with my vacancy data it wouldn't make
- 11 sense to look at long-run trends because the vacancy
- 12 data has changed so much over time.
- So, you know, I still think that this needs
- 14 more research, but it is fair to say that right now,
- 15 with the kinds of data that people have just based on
- 16 employment concentration and typically at the industry
- 17 level, there has been a decline in labor market
- 18 concentration, and, therefore, it is not as clear how
- 19 exactly this plays in the trends. So, you know, to
- 20 what extent labor market concentration trends, not
- 21 levels, I think I want to make a distinction between
- 22 that, explains wage stagnation.
- 23 So, but, you know, here are some interesting
- 24 avenues I think for future research. So first of all,
- 25 again, labor market definition is critical, and one

- 1 issue when you compare over time is to ask yourself is
- 2 the definition of the labor market -- should it stay
- 3 the same over time? And that is a critical question,
- 4 because for example, we have done some preliminary
- 5 analysis looking at the impact of population density
- on the scope of geographic search of workers, so
- 7 basically, in more densely populated areas, commuting
- 8 times are longer, there is more congestion and people
- 9 tend to search closer to, you know, where they live,
- 10 for example, and that is changing over time,
- 11 differentially over different zones.
- 12 And, so after you adjust for that, for
- 13 example, the decline in HHI doesn't seem to be as
- 14 strong. Just as one example of an issue that needs to
- 15 be addressed in terms of thinking about the definition
- of the labor market. Other things that, you know,
- 17 might be interesting to think of are things like
- 18 multimarket contact or changes in common ownership,
- 19 so, you know, I believe that we need to learn more
- 20 about the trends and how the whole, you know, story
- 21 fits in.
- I feel more confident about the general
- 23 relationship between concentration and wage -- you
- 24 know, even to be less controversial, market power
- 25 because I think the labor supply elasticity evidence

- 1 is much stronger, better identified than the
- 2 concentration evidence. So I think there is an issue
- 3 of market power and that it's very clear that there is
- 4 such an issue of market power and power in the labor
- 5 market. But exactly how the trends have played out, I
- 6 think at this point is less clear, and we have to, you
- 7 know, further investigate to learn more about that.
- 8 MR. SANDFORD: So does anyone else want to
- 9 comment on whether we should care about declining
- 10 labor share? Matthias?
- 11 MR. KEHRIG: Sure. Happy to talk about
- 12 this. On principle, when we talk here about wages,
- 13 this is not the point that we -- it's not about wages,
- 14 it's about welfare. And when we think about welfare,
- 15 we have to think about, what is your wage and what is
- 16 the price level. So it's really about real local
- 17 wages that we should be concerned about. The labor
- 18 share gets it a little bit closer to that because it
- 19 relates the wage to the nominal output by the share of
- 20 that stuff.
- 21 When we started our research on the labor
- 22 share, we tried to come up with for reasons for why
- 23 the labor share went down. We explored about half a
- 24 dozen avenues related to labor market factors in the
- 25 hope that there was an explanation. So we looked at

- 1 states that become right to work, is it that now there
- 2 is lower bargaining power that we see actually the
- 3 labor share declining in those states, and the
- 4 evidence is basically very muted.
- 5 And we also looked at -- we looked at
- 6 regions where unionization has been going down a lot,
- 7 basically manufacturing has been exodus from the Rust
- 8 Belt, the Midwest, down south where wages generally
- 9 are lower, the regulations are lower, they have much
- 10 more free reign. Boeing is shifting production from
- 11 Washington to South Carolina. All car manufacturers
- 12 have plants in Tennessee, South Carolina, Alabama. We
- don't see a big impact on the labor share.
- 14 We also looked at concentration to see
- 15 basically Walmart comes to the county, does that lower
- 16 the wages a lot in that county? And the evidence
- 17 again was pretty muted. So the labor share -- we have
- 18 basically a paper where there's a big graveyard
- 19 section at the end, where it's like all these
- 20 unsuccessful hypotheses that empirically don't really
- 21 hold up.
- It took us two years of testing to find out,
- 23 like, that actually the main action is at the output
- 24 side, at the price side. So this is in terms of labor
- 25 share the one thing that we have to understand in

- 1 terms of when we think about this in the context of
- 2 the labor market. We have to think, what does it mean
- 3 for the consumers, for your real purchasing power? Of
- 4 the wage that you have?
- 5 And that is one -- one thing that I wanted
- 6 to add to the discussion about local concentrations,
- 7 so there are two things. Labor markets are regional,
- 8 they tend to be regional. You have a certain set -- a
- 9 pool of people that live there and a certain pool of
- 10 employers that hire there, and that's it. Goods
- 11 markets are not. So when you consider antitrust cases
- 12 and you consider the labor market consequences, that
- is very hard to assess because we have to have --
- 14 basically keep in mind that the firm's action -- they
- 15 are active nationwide. And -- but they -- in the
- 16 local market, they act locally. So that's one aspect.
- 17 The second aspect I want to say is, what is
- 18 the difference between concentration at the local
- 19 level and at the global level? So locally it might
- 20 well be that concentration is going down because a new
- 21 employer moved to town. But if basically we know that
- 22 at the product level side, there has been a lot of
- 23 consolidation, so if it is the case that basically if
- 24 you live in County A or Commuting Zone A, and your
- 25 options are work for Walmart, become a Starbucks

- 1 barista or something else, in the old days, you used
- 2 to have the option to pack up and move elsewhere and
- 3 you would face different employers, different firms.
- 4 Today, you again have Walmart, Starbucks,
- 5 and some other local firms. So basically these firms,
- 6 when they set their wages locally, they keep in mind,
- 7 they set a whole menu of wages, not only just in that
- 8 one commuting zone, but also in the neighboring -- in
- 9 the neighboring regions. So that's important to keep
- in mind to assess the whole situation about local
- 11 concentration, what are the neighboring, what are the
- 12 other options for the workers to go elsewhere, and
- 13 what are the local prices.
- Oh, and to add also the last thing about the
- 15 labor share, what Bob Topel said earlier, there's the
- 16 story that capital deepening is behind the labor share
- 17 decline. This is also not the case.
- 18 MR. KRUEGER: I would have described labor
- 19 share as a symptom rather than the cause. And
- 20 Matthias showed before that there seems to be less
- 21 profit-sharing, less rent-sharing or less sharing of
- 22 the gains in productivity at the superstar firms.
- 23 And another development which is consistent
- 24 with that is that firm size premium is smaller than it
- 25 used to be, so larger companies used to pay higher

- 1 wages, and that gap is much smaller, which is
- 2 consistent with weakening of worker bargaining power,
- 3 the places where there are rents where workers could
- 4 get a bigger share of the pie, they're not able to for
- 5 whatever reason.
- 6 Some of those reasons are beyond -- well
- 7 beyond the reach of antitrust policy. Some antitrust
- 8 policy may be able to have a significant effect if the
- 9 October 2016 guidelines are enforced and so forth.
- 10 I'm not aware of any criminal cases. That could send,
- 11 I think, a very strong signal across many different
- 12 employers.
- So I think of it more as a symptom, and one
- 14 of the causes may have been weakening bargaining power
- 15 related to anticompetitive practices.
- 16 MS. ROSE: So I want to echo that, but,
- 17 Alan, I don't know why you are going to
- 18 anticompetitive practices because it seems to me
- 19 having in my youth worked on rent-sharing and hearing
- 20 some of the discussion that you've had here today,
- 21 that weakened worker bargaining power may be due to a
- 22 whole set of institutions on the labor market side
- 23 that really have nothing to do with competition among
- 24 employers or with antitrust.
- 25 And I would have thought if we were trying

- 1 to choose an answer that required kind of the least
- 2 steps of logic to get there, that would be the place
- 3 to begin. I mean, we certainly have, as your earlier
- 4 remarks indicated, a lot of evidence that there's been
- 5 a decline, say, in not just unionization rates but
- 6 union bargaining power as a consequence of that more
- 7 difficulty in unionizing firms and so forth.
- 8 And I think -- I think this discussion of
- 9 worker rent-sharing also weighs into that. What we're
- 10 asking for, if we think rent-sharing created a kind of
- 11 golden age where workers were paid more, I am not
- 12 saying this as a former antitrust enforcer, but we
- 13 want less competition, not more, to get those rents
- 14 created and then shared with workers.
- And so I do feel we're chasing after a bunch
- 16 of symptoms that make us concerned, and somehow for
- 17 some reason we have glommed onto antitrust, but it is
- 18 neither, as I said before, the most effective nor
- 19 appropriate nor probably legally available tool for a
- 20 lot of what we're concerned about.
- 21 MR. TOPEL: Let me respond a little bit. I
- 22 think that raises a very important point. I don't
- 23 think they're independent. I think the decline in
- 24 unions helped to lead to some of the anticompetitive
- 25 practices, that it's harder for employers to have --

- 1 require noncompete agreements if there is a labor
- 2 union which is negotiating a contract and says we
- 3 don't want a noncompete agreement. It's harder for
- 4 companies to have anti-poaching arrangements if
- 5 franchises are unionized, so I don't think that
- 6 they're independent.
- 7 And I don't want to argue that the
- 8 significant changes we have had in the labor
- 9 market have developed because of an increase in
- 10 anticompetitive practices I think that's a
- 11 contributing factor. I think there are others which
- 12 way may well be more important. So I don't want to
- 13 be -- I don't want to mischaracterize myself in
- 14 saying, you know, this is the instrument that we
- 15 should use because this is the problem.
- 16 On the other hand, there are very few
- instruments that are available currently. So if you
- 18 say what are the tools that we could use, especially
- 19 if they've been underutilized, which I think has been
- 20 the case, that, you know, the franchise contracts have
- 21 been allowed to have no-poaching agreements for
- 22 decades. It's only recently because of the actions of
- 23 the Attorney General in Washington State that 30
- 24 franchises have dropped it, affecting hundreds of
- 25 thousands of workers.

- 1 So I think these are tools that were in our
- 2 toolkit that were underutilized, but I don't -- and
- 3 they're available, but I don't think they are -- I
- 4 wouldn't necessarily -- I think we don't know enough
- 5 to say that anticompetitive practices are the main
- 6 reason, and I suspect it's probably not the case.
- 7 MR. RAVAL: That's essentially a nice seque
- 8 to my next question. So this is about the definition
- 9 of monopsony. So maybe one of the classical
- 10 definitions of monopsony would be you restrict the
- 11 amount of labor hired into the amount of output
- 12 generated, and then there's going to be a welfare loss
- 13 of dead weight loss in the output market.
- But you could also think about things like
- 15 a change in bargaining power between labor and
- 16 management, and workers are now getting a smaller part
- of the joint surplus from their employment. So should
- 18 this be considered with -- should we be -- as
- 19 antitrust enforcers be worried about changes in
- 20 bargaining power? Is that an interest or concern or
- 21 not?
- MS. ROSE: So I'll say yes. I've got a Yale
- 23 Law Review paper with Scott Hemphill that says
- 24 absolutely yes. I think the antitrust law requires us
- 25 to focus on actions that reduce competition, and if we

- 1 are reducing competition and that's what's leading to
- 2 sort of reduced -- or increased employer bargaining
- 3 power, say, and an ability to suppress wages, we
- 4 should worry about that if it's coming from a merger,
- 5 say.
- 6 If it's reduced bargaining power by workers
- 7 because we have become more hostile as a country to
- 8 unions, that's not an antitrust -- that's not an
- 9 anticompetitive effect that's coming through the
- 10 action of the firms. And that is probably not
- 11 something that we can reach. But I think -- I think
- 12 the notion that we need an output reduction as opposed
- 13 to a transfer of wealth is very misleading. We don't
- 14 do that on the product market side, typically, and so
- 15 I don't think we should be doing it on the input
- 16 market side either.
- 17 Bob may disagree.
- 18 MR. TOPEL: No, I agree with what you said.
- 19 If it's due to a reduction in real competition, then
- 20 it is an actionable thing. It's within the purview of
- 21 antitrust policy. If it's due to other phenomena, you
- 22 referred to hostility, but there's a lot of reasons of
- 23 the decline in the fraction of labor force belongs to
- 24 unions. I'm not suggesting --
- MS. ROSE: Right, right, it could be

- 1 anything, but right.
- 2 MR. TOPEL: -- that you're -- it could be
- 3 anything, but none of those really fall within the
- 4 purview of antitrust policy.
- 5 MR. SANDFORD: Okay, next question. So
- 6 speaking as an antitrust enforcer, I mean, to a first
- 7 approximation, we block mergers if we think the price
- 8 is going to go up. A merger that might increase
- 9 employer concentration is going to, we would think,
- 10 cause wage to go down. Wages go down, the price of
- 11 the product purchased by consumers may go down as
- 12 well.
- 13 And so, one, is it clear that -- what is
- 14 the path to address concern about labor market
- 15 consolidation from a merger if it would cause the
- 16 product market price to go down? And, two, how would
- 17 we balance a merger that might increase labor market
- 18 consolidation but have other efficiencies that would
- 19 cause the product market price to go down? And so
- 20 that's probably most appropriate for the antitrust --
- 21 people with antitrust experience. We can start with
- 22 Nancy.
- 23 MS. ROSE: Sure. I'd love to weigh in on
- 24 that. So I think the first and most important thing
- 25 to keep clear, and I am not saying that you weren't

- 1 recognizing this, but I think in these discussions,
- 2 particularly among antitrust practitioners, if it's a
- 3 classical monopsony case where the firm is withholding
- 4 employment to drive the wage down, the firm does not
- 5 perceive that lower wage to come with a lower cost of
- 6 hiring a worker. If you go back to that curve that I
- 7 showed you, the firm is perceiving the marginal cost
- 8 of hiring another worker to be very high because it
- 9 has to pay a higher wage to everyone.
- 10 So in a classical monopsony case, there's
- 11 just an output restriction by the firm that's
- 12 exercising monopsony power. There's no lower cost to
- 13 pass on. In the bargaining case, that might not be as
- 14 apparent or might not be true. There might be no
- 15 employment effects, no output effects, just a transfer
- 16 of rent -- just, but a transfer of rents from workers
- 17 to the firm due to, say, an anticompetitive merger.
- 18 And as I said before, our merger law requires us to
- 19 challenge mergers that may substantially reduce
- 20 competition.
- 21 I think it's misleading to say how should we
- 22 balance. It's like saying there is a merger in the
- 23 product market that has product market benefits for
- 24 some set of consumers or some set of products or
- 25 purchasers, and it has harms in other product markets.

- 1 Should we say, well, let's add them all up and say if
- 2 the total is that the group that wins, wins by more
- 3 than the group that loses, loses, we just let it go.
- 4 And I don't think we typically do that. I
- 5 think if we see that there are -- and, of course,
- 6 there's always prosecutorial discretion, but if we see
- 7 that there are a group of consumers that are harmed by
- 8 an anticompetitive merger, we challenge. It might be
- 9 that if the mergers got mostly benefits and there is
- 10 one small group that's harmed, we accept some kind of
- 11 remedy that solves the competitive harm and preserves
- 12 the benefits. But I don't think we tend to agonize
- over that balancing in the product market side, and I
- 14 don't think we should agonize over that balancing when
- 15 the harm is going to workers.
- MS. MARINESCU: Yes, and actually in my
- 17 paper with Herb Hovenkamp we discussed this point and
- 18 come down to the same conclusion based on case law.
- 19 MR. RAVAL: So the next question, so for
- 20 better or worse, whenever we're doing an antitrust
- 21 case, one of the basic things we need to do, and which
- 22 is often kind of the biggest part of the legal case,
- 23 is introduce market definition. So in terms of labor
- 24 markets, how should we approach geographic and product
- 25 market definition?

- 1 And in particular, this is a point that Bob
- 2 picked up, you know, if you think about the market for
- 3 university professors, Lincoln, Nebraska is probably
- 4 not -- Lincoln, Nebraska is probably not a market.
- 5 The market should be maybe more broad or more
- 6 national. So how much labor mobility do we need in
- 7 order to define a broad market versus a narrow market?
- 8 MR. TOPEL: And over what period of time?
- 9 Does mobility have to -- or that elasticity have to
- 10 occur? I think that's really -- really an important
- 11 question. So as I was outlining in my presentation
- 12 briefly, one of the tools you can use is a critical
- 13 labor supply elasticity, and this can vary by
- 14 occupation. Right? So I think that's what you're
- 15 getting at, that different types of workers might be
- 16 more or less mobile, and this is something that we
- 17 actually are able to get data on for various sources,
- 18 including, for example, transition, say from the
- 19 current population survey, across geography for
- 20 different occupations.
- In my current work in progress, with Jose
- 22 Azar and Steve Berry, we're using a very detailed
- 23 microdata set of applications from workers, two jobs
- 24 where we have every occupation under the sun, and we
- 25 see the distribution of applications, which kind of

- 1 allows us, by occupation, to see the variety of
- 2 geographies and other types of jobs that people are
- 3 applying to.
- 4 So there definitely exists ways of getting
- 5 at that, if we're interested in estimating those
- 6 elasticities. And this is something that we are
- 7 actively working on.
- 8 MR. KRUEGER: Just to add as a practical
- 9 matter, labor markets tend to be more regional for
- 10 less skilled workers, more national for highly
- 11 educated workers. It's going to vary a bit by
- 12 occupation, but that's what one generally finds. And
- 13 we do have data available to do the kind of analysis
- 14 that Ioana was mentioning to look at where workers are
- 15 moving, how are they defining the markets and use that
- 16 as an input, I think.
- 17 MR. SANDFORD: So are mergers that lead to
- 18 worse outcomes in the labor markets more likely to
- 19 involve high skilled workers or low skilled workers?
- 20 I mean, it seems to me like low skilled workers have
- 21 many maybe different occupations that they could --
- 22 it would be easier to shift occupations if you are
- low skill, but if you're high skill, you're likely to
- 24 be -- you know, when I was a professor at University
- 25 of Kentucky, the nearest comparable employer was like

- 1 75 miles away, and I couldn't really go anywhere. So
- 2 it seemed like I was more locked in as a high skilled
- 3 worker there than low skilled worker.
- 4 Maybe I'll pose that to Nancy.
- 5 MS. ROSE: So I wanted to weigh in. When I
- 6 was thinking about what mergers we might have missed,
- 7 and I have a candidate, the candidate popped at first
- 8 because the second most highly concentrated occupation
- 9 in Ioana's work was -- in one of her papers was
- 10 railcar repairers, and that called to mind an April
- 11 2018 DOJ no-poach action against rail equipment
- 12 manufacturers, in Knorr-Bremse and Wabtec, that
- 13 alleged that the companies had "for years maintained
- 14 unlawful agreements not to compete for each other's
- 15 employees" and moreover had a similar no-poach
- 16 agreement with Faiveley Transport before Faiveley was
- 17 acquired by Wabtec in November of 2016.
- 18 What this no-poach complaint said was that
- 19 they'd entered into what they called pervasive no-
- 20 poach agreements that spanned multiple business units
- 21 and jurisdictions involving typically -- it said
- 22 primarily affecting recruiting for project management,
- 23 engineering, sales, and corporate officer roles.
- So I wonder if sometimes we have some
- 25 indication of what these labor markets might look like

- 1 by the extent, when we uncover a collusive agreement
- 2 by the extent or the incidence of where the no-poach
- 3 agreements are being pursued, and that does suggest a
- 4 more high skilled occupation mix, maybe not, maybe not
- 5 as specialized as I would have expected it to be, but
- 6 it doesn't sound like they were entering into no-poach
- 7 for the janitorial staff or even the low-level factory
- 8 workers, suggesting that maybe we worry more about
- 9 that typically. Again, not always. We'd have to look
- 10 at facts and circumstances, but maybe more with the
- 11 higher skilled and more specialized workers, and
- 12 that's certainly consistent with what that hospital
- 13 mergers paper found.
- MS. MARINESCU: And, you know, that just
- 15 gives you the easy way out in the sense that if there
- 16 is the no-poach agreement, that's a very good piece of
- 17 evidence to use. You don't necessarily need to --
- 18 and, you know, at least the further evidence would be
- 19 confirmatory instead of having to dig deep into the
- 20 elasticity of labor supply for that particular, you
- 21 know, kind of occupation.
- MS. ROSE: Well, let's be clear if you were
- 23 going to challenge the merger, this might be a useful
- 24 screen. You're not going to win a merger case by just
- 25 saying, look, it must be a labor market, they had this

- 1 agreement here. I think anybody who's been involved
- 2 in litigation would be leary to go to court with just
- 3 that argument.
- 4 MR. TOPEL: Putting aside collusive conduct,
- 5 do we have good examples of, like, in the realm of
- 6 mergers, we have all kinds of examples of possibly
- 7 mergers for monopoly that can be challenged because
- 8 it's going to affect prices in the output market. Do
- 9 we have any examples of merger for monopsony where the
- 10 purpose was to reduce wages in the labor market? Or
- 11 are we chasing unicorns here?
- MR. KRUEGER: You know, it's interesting.
- 13 I'm not sure there's an answer to that, and on the
- 14 chasing unicorns, when the October 2016 guidance was
- 15 discussed, that very same question came up about,
- 16 well, how common are these no-poaching agreements,
- 17 wage-fixing agreements --
- 18 MR. TOPEL: But that's the collusive --
- 19 MR. KRUEGER: Let me finish, Bob.
- 20 MR. TOPEL: -- side, yeah.
- 21 MR. KRUEGER: And the assistant attorney
- 22 general, Makan Delrahim said he's been shocked by how
- 23 many cases there are. And part of the guidance set up
- 24 a hotline for people to call in. So I think, you
- 25 know, I started my remarks by saying this is an area

- 1 where I think we are learning a lot, where there has
- 2 been a lot of active research. I don't think we know
- 3 the answer to that, but in some areas it looks like
- 4 the anticompetitive practices are more common than was
- 5 widely understood.
- 6 MS. ROSE: So I think it's harder to get
- 7 that information on the labor side, but it's not
- 8 impossible, right? So when you start a merger
- 9 investigation, you're calling and talking to people in
- 10 the industry, and you're often getting inbounds, and
- 11 so I think if there was a merger primarily motivated
- 12 by an effort to push down wages by the two merging
- 13 parties, and I'm not saying for sure we'd hear about
- 14 it if it really affected kind of lower level workers,
- 15 but if higher level workers thought, you know, this
- 16 makes no sense except that it's going to really
- 17 eliminate the only people competing for my talent, I
- 18 would have thought we'd hear some about it.
- I suspect it's not the main or only
- 20 motivation, but there could be mergers where -- so
- 21 like in this rail equipment one where maybe the labor
- 22 market overlap is more significant than the product
- 23 market overlap was.
- 24 MR. TOPEL: Well, you can envision a lot of
- 25 mergers, let us say for efficiencies, that end up

- 1 being labor-saving that because of at least for the
- 2 short-run elasticity of supply that Ioana refers to
- 3 there's going to be a large impact on people who've
- 4 got specific skills with the firm and stuff like that,
- 5 so that labor costs might decline a lot, and it might
- 6 not just decline because of a head count but because
- 7 you have to pay these people less to retain them, so
- 8 then you've got to balance anticompetitive impact
- 9 against procompetitive benefits.
- 10 But I'm asking about one that would be
- 11 specifically like, look, we're not going to be more
- 12 efficient, we just, in terms of the diversion ratio,
- 13 we've brought this other unit inside and now we can
- 14 control the price better than we did before, but the
- 15 price we're controlling is on the labor market side.
- MS. MARINESCU: So, Bob, would it be
- 17 anecdotally thinking about the high-tech sector? We
- 18 hear about companies buying another company in order
- 19 to get their software engineers so, you know, that's
- 20 only anecdotal. I don't know, you know, how much
- 21 evidence we have on that, but at least you hear those
- 22 stories regarding, you know, buying the pool of --
- MR. TOPEL: Well, that comes back to high-
- 24 tech, you know, I want to hire the software engineers
- 25 from the guy across the street because they know a lot

- 2 more like proprietary information I'd like to get my
- 3 hands on.
- 4 MR. KRUEGER: Another example was the film
- 5 animators, Lucas Film and Disney, which had a big
- 6 settlement for no poaching, and then they merged. And
- 7 it's a little hard to say that they did it to get, you
- 8 know, the human capital before they agreed not to
- 9 poach from each other.
- 10 MS. ROSE: Right, although there you would
- 11 want to investigate sort of what the labor market
- 12 looked like, right? Was there something about these
- 13 two firms reaching an agreement but that were lots of
- 14 other competing employers or not.
- MR. KRUEGER: I don't think there were.
- 16 MS. ROSE: I see. I mean, that's -- I think
- 17 that's the kind of thing that antitrust enforcers know
- 18 how to do. I think what's great about this literature
- 19 and this discussion and these hearings is that it's
- 20 maybe encouraging us to think, to ask some of these
- 21 questions early on in an investigation to determine
- 22 whether this might be one of -- you know, maybe it's
- 23 not a unicorn, but maybe it's one of the rare ones
- 24 where labor market issues might come to the front.
- 25 MR. RAVAL: So if you look at the research,

- 1 developing the case law.
  - 2 But I don't think we want to have agencies

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- 3 bury their heads in the sand and not worry about the
- 4 potential harm upstream.
- 5 MR. KRUEGER: Could I add? You know, I
- 6 think one place where DOJ and FTC could have a lot of
- 7 leverage in the no-poaching and the naked wage-fixing
- 8 is that one very strong case will send a very strong
- 9 signal to 6 million employers who, from what I can
- 10 tell, think there are no penalties because so far
- 11 there have been no penalties for no-poaching
- 12 agreements. The penalty has been stop doing this
- 13 rather than -- as far as I know, rather than paying
- 14 fines.
- And in the Detroit case, my understanding
- 16 was the human resource people thought this was kind of
- 17 the right practice to do. They -- the right practice
- 18 in the sense they knew it was technically illegal, but
- 19 they thought that's kind of the normal business
- 20 practice. And I think a strong case where there are
- 21 actual penalties as opposed to just cease and desist
- 22 will send a signal and potentially have a significant
- 23 effect, much more than enforcement actions, because it
- 24 will -- you don't have the resource -- I suspect given
- 25 the prevalence of anticompetitive practices you don't

- 1 MR. JACOBSON: Yeah, so as I said, I would
- 2 spend the money on rulemaking. I think a
- 3 retrospective or two focused on labor markets would be
- 4 good bang for the buck as well.
- 5 MR. POSNER: I would divert substantial
- 6 resources, as I was arguing earlier, to labor market
- 7 anticompetitive behavior, product market
- 8 anticompetitive behavior, they're just, you know,
- 9 substitutes for the firm. And so just think of, like,
- 10 the police force trying to catch drunk drivers. You
- 11 know, if you've got all of your resources on Highway 1
- 12 and Highway 2 goes the same place, your drivers are
- 13 just going to take Highway 2.
- What you have to do is you put some
- 15 resources on Highway 1 and some resources on Highway
- 16 2, and I think the same thing has to be done here.
- 17 MR. GAYNOR: If I could convince Congress
- 18 that the FTC does not need to continually monitor
- 19 gasoline markets, then I think that would free up some
- 20 resources that could be better spent in a lot of other
- 21 ways, this among them.
- 22 MR. STARR: I definitely think that a
- 23 moderate amount of resources should be spent on
- 24 understanding more about labor markets, and in
- 25 particular I feel like it would be straightforward to

- 1 develop some screeners that would indicate at least
- 2 the use of these nonpoaching agreements, noncompete
- 3 agreements, and understanding what's happening at the
- -- within those firms that are merging. 4 That seems
- 5 like pretty low-cost and easy to do. And, yeah.
- 6 MR. MOORE: So the second question is going
- 7 to relax one of stipulations from the first question.
- 8 And let's suppose that Congress has appropriated funds
- 9 to the FTC earmarked specifically for addressing
- concerns about monopsony power in labor markets. And 10
- 11 this is on top of the budget that we already have.
- So you have a pile of money to spend on 12
- 13 addressing labor market issues. How do you spend that
- pile of money? What -- Marty mentioned some of this 14
- 15 in his opening talk, but what are the first places or
- 16 where are the first places that you'll go to address
- 17 concerns about monopsony in labor markets?
- 18 MR. GAYNOR: So I'll just reiterate what I
- said, go after the stuff that's obviously bad and do 19
- it now and don't let it sit. Think about crafting 20
- 21 rules on noncompetes as have been discussed, and put
- 22 some resources into really understanding better what
- 23 happens on the merger side where I think that it's
- 24 potentially highly important and significant, but we
- 25 have a pretty big gap in knowledge.

- 1 MS. HESSE: I think I would invest the
- 2 resources in doing a more broad-scale investigation of
- 3 the question of whether or not you can correlate
- 4 growing concentration to wage inequality and wage
- 5 stagnation. I think if we could actually find studies
- 6 that people won't always agree on everything, but
- 7 where, you know, there was some sense amongst a core
- 8 group of smart antitrust economists and lawyers that
- 9 there was really a correlation between those two
- 10 things, that would go a long way.
- MR. JACOBSON: Of course, there was such a
- 12 correlation with the FCP paradigm back in the '60s and
- 13 look where they got us, but -- so I'd spend the same
- 14 money on retrospectives and rulemaking. Sorry to be
- 15 simple.
- MR. MOORE: Okay.
- 17 MR. POSNER: I would spend it on merger
- 18 analysis. I think one way to think about this is that
- 19 there's been an immense amount of consolidation in
- 20 this country going back decades with the FTC and the
- 21 DOJ looking at the product market. I think probably a
- 22 lot of what was going on is they were saying, well,
- 23 there's a national market, there's an international
- 24 market, this is fine, we can let these mergers go
- 25 through.

- 1 And all through these mergers, they ignored
- 2 the labor market effects, which are local and regional

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- 3 and were probably -- I mean, we don't know, but could
- 4 very well have been very big. So I think there's a
- 5 big, you know, chunk of missing social welfare and the
- 6 Government has to catch up.
- 7 MR. STARR: I agree with Eric on the merger
- 8 review, and in particular I think that resources
- 9 should be spent on understanding actual concentration
- 10 for workers, and in particular because labor markets
- 11 are two-sided markets. And I think that poses some
- 12 unique matching difficulties that search costs are
- 13 really high, and I don't know if we have a good way to
- 14 generalize that across studies, and I feel like it
- 15 would be valuable to put some resources there.
- 16 MR. MOORE: Any last comments in the 35
- 17 seconds that we have before lunch?
- MR. MOORE: So I totally agree that I think
- 19 understanding what happens is important, and I think
- 20 more research is. I would not do -- spend more time
- 21 on looking at concentration. For reasons given on the
- 22 previous panel and actually on other sessions here, I
- 23 don't think that's a productive activity. I don't
- 24 think that's going to yield useful research evidence,
- 25 but I do think that we need to do more about this and

25

| 1  | we think when you do this and focus studies on    |
|----|---|
| 2  | specific markets analogous to the study that was  |
| 3  | mentioned about the effect of hospital mergers on |
| 4  | certain nursing markets, that's where I think the |
| 5  | effort should go.                                 |
| 6  | MR. MOORE: So please join me in thanking          |
| 7  | all of the panelists.                             |
| 8  | (Applause.)                                       |
| 9  | MR. MOORE: And now we have a lunch break          |
| 10 | (Panel 2 concluded.)                              |
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PANEL 3: WHAT CAN U.S. v. MICROSOFT TEACH ABOUT 1

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- 2 ANTITRUST AND MULTI-SIDED PLATFORMS
- 3 MR. ADKINSON: Thank you for coming to
- 4 today's session. If you could take your seats,
- 5 please. My name is Bill Adkinson. I'm an attorney
- advisor in the Office of Policy Planning at the 6
- 7 Federal Trade Commission. It's my pleasure and
- 8 privilege to introduce the panel on What can U.S.
- 9 against Microsoft Teach about Antitrust and Two-sided
- 10 Platforms.
- 11 We will have people collecting cards.
- 12 you have questions you want the panelists to consider,
- please write them out on the cards and pass them to 13
- 14 the folks in the aisle who are collecting them.
- 15 So 20 years ago this past May, the
- 16 Department of Justice brought its seminal antitrust
- case against Microsoft, which culminated in a 2001 17
- 18 opinion by the DC Circuit and a subsequent consent
- The case was groundbreaking in many respects. 19 decree.
- It was the prototype for applying antitrust in 20
- 21 dynamic innovation-intensive industries. It raised
- 22 challenges regarding how antitrust can protect
- 23 competition and promote incentives for innovation
- 24 both by dominant platforms and edge players in the
- 25 tech sector.

- 1 Of particular relevance to these hearings,
- 2 Microsoft's dominant position was the product of
- 3 indirect network effects. The Windows operating
- 4 system was a two-sided platform serving applications,
- 5 developers, and computer users. However, the economic
- 6 literature on the network effects was in its infancy,
- 7 as David Evans reported yesterday. Similar antitrust
- 8 issues are currently arising in the context of a new
- 9 set of tech-sector platforms, such as Facebook,
- 10 Google, Amazon, and Apple.
- 11 As we heard during yesterday's panels, these
- 12 platforms also post challenges in applying antitrust
- in dynamic, rapidly changing industries. Enforcers
- 14 and courts strive to protect innovation incentives of
- 15 both platforms and platform participants and evaluate
- 16 conduct by two-sided platforms and the impact of
- 17 network effects.
- This afternoon's extraordinarily
- 19 distinguished panel will discuss how the benefit of
- 20 greater economic learning and hindsight can help us
- 21 better understand aspects of the Microsoft case and,
- 22 more importantly, how the experience and understanding
- 23 from the Microsoft case can inform and guide proper
- 24 antitrust enforcement in this area today.
- The panelists will each give opening

1 statements of approximately five minutes each. They

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- 2 are, starting from my right, Professor Daniel
- 3 Rubinfeld, New York University School of Law and
- 4 University of California at Berkeley School of Law;
- 5 Professor Douglas Melamed, Stanford University School
- 6 of Law; Susan Creighton, a partner at Wilson Sonsini
- 7 Goodrich & Rosati; Professor Randy Picker, University
- 8 of Chicago Law School; Leah Brannon, a partner at
- 9 Cleary Gottlieb Steen & Hamilton; and Professor
- 10 Timothy Wu, Columbia University Law School.
- 11 Dan?
- 12 MR. RUBINFELD: Thanks very much, Bill,
- 13 appreciate the introduction. During the time of the
- 14 Microsoft case, I was the deputy at the Department of
- 15 Justice in charge of economics, and I spent a good
- 16 deal of my time, along with a lot of help from a team
- of lawyers and economists, thinking about the
- 18 Microsoft case. And I want to try to describe a
- 19 couple of important elements that I think are worth
- 20 reviewing.
- 21 First, of course, we were not talking about
- 22 the world of two-sided markets in those days. We were
- 23 talking about platform competition, however. The
- 24 Microsoft case is about a two-sided market. There are
- 25 customers both on the side of users of the Office

- 1 suite and users of the operating system, as well as
- 2 developers for apps. But the two-sided market doesn't
- 3 have anything like the characteristics of the two-
- 4 sided market we see with transactions because there
- 5 aren't single transactions that affect both sides of
- 6 the markets at the same time. There are network
- 7 effects, there are externalities, and there's a kind
- 8 of feedback loop, but it's not one that has any direct
- 9 impact.
- 10 And as I will explain, what I think is
- 11 important, you'll see that nothing I'm going to say
- 12 depends on the fact there is or there is not a
- 13 characterization of a two-sided market. I think
- 14 that's largely a misleading characterization for
- 15 purposes of looking at the Microsoft case.
- What was important to me was network
- 17 effects. And at the time that I was doing work on
- 18 this case, along with the staff, there was a
- 19 significant literature in the economics world on
- 20 network effects. People like my colleagues Carl
- 21 Shapiro, Mike Katz, Stanford's Garth Saloner, NYU's
- 22 Nick Economides, and a lot of other people were
- 23 writing about network effects, but it was new and it
- 24 was controversial.
- That was an important point to develop, and

- 1 network effects turned out to be an important part of
- 2 the case. They helped to describe the way in which
- 3 Microsoft maintained its market power and its
- 4 operating system. And it was in a way the key to the
- 5 case. And it was the key to the case because the
- 6 Government believed and developed the argument that
- 7 network effects could generate substantial monopoly
- 8 power and could lead and support practices that would
- 9 allow Microsoft to maintain its market power and
- 10 monopoly power in the operating system market.
- 11 So the key to the case was to develop
- 12 network effects. And the other thing that was
- important and essential was to show how network
- 14 effects drove the important barrier to entry. And
- 15 the barrier to entry, as most of you would know, was
- 16 that in order to compete in the operating system
- 17 market, you had to actually have useful important
- 18 applications, so entry really occurred in two steps.
- 19 You had to generate an application and an operating
- 20 system.
- 21 And that application's barrier to entry
- 22 became the term that was the norm of the case for us.
- 23 As far as I know, it was a term never used before the
- 24 case was filed, and I can tell you by the end of the
- 25 trial, Microsoft, as well as the Government, was using

1 the term every day in the trial. And I think that was

- 2 really a significant part of the case.
- 3 There was a platform argument made in the
- 4 case, and it is true, I think, that the operating
- 5 system and the apps upon it can be described as a
- 6 platform. But the two-sided nature is really not
- 7 important. What was important was that the platform
- 8 really supported this monopoly power. Interestingly
- 9 enough to me, the issues about platforms that came up
- 10 during the case were issues -- relevant issues as to
- 11 whether this market power, substantial market power,
- 12 really was sustainable and significant. And the
- 13 argument was raised by Microsoft in the case that that
- 14 monopoly power could be overcome. There would be
- 15 competition for the market that would be powerful.
- 16 But what's striking to me, and it turned out
- 17 to be important in the case as the facts developed,
- 18 was that it was very hard for Microsoft to specify
- 19 what that competition was. And for me, one of the
- 20 really striking exhibits in the case was a Microsoft
- 21 exhibit saying we face substantial competition from
- 22 known and unknown sources. And my view is when you
- 23 have to rely on unknown, unnameable sources to defeat
- 24 monopoly power, you really have a weak case. And that
- 25 really struck the tone for me. And I will stop and

- 1 pass to Doug.
- 2 MR. MELAMED: I'm going to focus on what I
- 3 think of as the legal implications of the case. The
- 4 theory was conventional and straightforward -- well,
- 5 it wasn't conventional in the sense that Section 2 had
- 6 been pretty moribund at that point, but it was
- 7 conventional in the sense that it was entirely
- 8 consistent with longstanding Section 2 principles.
- 9 The theory was basically this. Microsoft
- 10 had monopoly power in operating systems -- PC
- 11 operating systems. That monopoly power was protected
- 12 by substantial entry barriers, specifically the
- indirect network effects and the so-called
- 14 applications barrier to entry. The point is you need
- 15 lots of applications in order to have people buy your
- 16 operating system. You won't have applications until
- 17 lots of people buy -- have already bought the
- 18 operating system in particular, a problem that was an
- 19 entry barrier.
- Okay, Microsoft, therefore, has a monopoly
- 21 protected by entry barriers and it engaged in conduct
- 22 that increased the entry barriers compared to the but-
- 23 for world. The important point here, the premise of
- 24 the Government's case was not that the entry barrier
- 25 was impregnable, not that Microsoft would have a

- 1 monopoly forever rather that it had -- there were
- 2 entry barriers, and it was a question of raising
- 3 the entry barriers compared to the rest of the
- 4 world.
- 5 Okay, how did Microsoft raise the entry
- 6 barriers? With Netscape and Java which were two
- 7 uniquely important potential platforms, application
- 8 platforms and thus potential facilitators of new
- 9 operating system entry. The conduct was the kind of
- 10 conduct that would pass any ordinary test for
- 11 anticompetitive conduct under the antitrust laws, and
- 12 it was to serve no efficiency enhancement purpose at
- 13 all. There are one or two footnotes I'm not going to
- 14 bother with, and thus the conduct made no sense except
- 15 as a device to increase entry barriers. Plaintiff
- 16 wins. Perfectly straightforward.
- 17 So what was the controversy about other than
- 18 the sort of importance of going after this exciting
- 19 new company and the world's youngest \$40 billion
- 20 person and so forth? And I think it was because the
- 21 case entailed the application of these very
- 22 traditional principles in a very new context that had
- 23 not previously been the subject of antitrust scrutiny.
- 24 So there was the issue of network effects, as Dan
- 25 said, widely discussed among some economists in the

- 1 literature, hotly contested in the litigation and in
- 2 the public controversy about it.
- 3 People actually wrote articles taking issue
- 4 with the story -- one of the fables about that that
- 5 was used to tell the story of network effects was the
- 6 qwerty typewriter keyboard. The notion was it was
- 7 really inefficient and it was just first mover
- 8 advantage that the original developer of the keyboard
- 9 that was developed for a very different purpose game.
- 10 And there were people who went in and said, well,
- 11 that's not true, that's really not the story of the
- 12 keyboard, as if that had anything to do with the
- 13 vitality and importance of the theory.
- So that was contested and now it's a part of
- 15 everybody's everyday vocabulary. The notion that
- 16 antitrust laws maybe shouldn't apply to dynamic, high-
- 17 tech industries -- Schumpeterian competition, winner
- 18 take all. Hotly contested. The court resolved that
- 19 and now we don't argue about that.
- 20 Is intellectual property a trump card
- 21 because they are protecting their intellectual
- 22 property rights? Well, the DC Circuit said that
- 23 boarded on the frivolous so people don't make those
- 24 arguments anymore. Product design, part of -- an
- 25 important part of the case was the court's finding

- 1 that a critical part of the design of the operating
- 2 system, mainly the commingling of operating system
- 3 and browser code, was anticompetitive. There had
- 4 been a tremendous argument in some precursors in the
- 5 law suggesting that product design is sort of safe
- 6 harbor from an antitrust point of view -- points of
- 7 view.
- 8 The most important significance, I think, of
- 9 the case beyond the specific findings of that type are
- 10 basically this. The court analyzed the facts at a
- 11 very fine level of granularity. It did not say this
- 12 is a case about product design; this is a case about
- 13 intellectual property. This is a case about putting
- 14 the -- having the browser packaged with the operating
- 15 system. It got down to very fine details. It had to
- 16 do with moving the browser from the add/remove
- 17 utility, thus making it harder for OEMs to distribute
- 18 other person's browsers. At that level of
- 19 granularity.
- It is about principles rather than rules.
- 21 And every point that a party argued that there was a
- 22 rule of thumb that should decide the case, whether it
- 23 was the Government arguing for a per se tying rule in
- one of its theories or defendants arguing exclusive
- 25 dealing can't be regarded as anticompetitive unless it

- 1 entails a 30 or 40 percent foreclosure, the court
- 2 said, no, we are not interested in legal rules like
- 3 that, in effect.
- 4 A key sentence in the opinion, which I
- 5 happened to read over the weekend when I was preparing
- 6 for this, is the following. The court said in this
- 7 quote, "It is difficult to formulate categorical
- 8 antitrust rules absent a particularized analysis of a
- 9 given market," a caution that I wish the Supreme Court
- in the AmEx case had borne in mind.
- 11 Okay, just two other things and I'll end
- 12 quickly. Causation. Hugely important causation
- 13 theory. It's interesting that Dan said the unknown,
- 14 it was a kind of a laughable position for Microsoft to
- 15 point to. But a lot of people used that very argument
- 16 against the Government and said what's your story?
- 17 What difference would it have made? It's all
- 18 speculation, doing in Netscape, this is just
- 19 theorizing. Why do we think it's actually going to
- 20 matter?
- 21 And the Government, of course, didn't have
- 22 the answer because one never knows what innovations
- 23 would take place in the but-for world. But the
- 24 Government's theory was quite different than that. It
- 25 was that by eliminating these potential facilitators

- 1 of new entry, they were raising the entry barriers and
- 2 in a probabilistic sense, reducing the likelihood of
- 3 new competition.
- 4 It was a theory available only in a monopoly
- 5 maintenance case, it wouldn't suffice in a creation of
- 6 monopoly case. And it was a theory that by its very
- 7 terms embraced and depended on concepts of
- 8 Schumpeterian competition.
- 9 So the big lesson in my view from the
- Microsoft case. It's not about its particular 10
- 11 holdings. It is about the proposition that I -- we
- 12 were all taught the first day of law school right?
- 13 It's all about the facts. The antitrust principles
- were proven to be robust in that case in part because 14
- 15 the court didn't get hung up on last year's rule of
- 16 thumb developing a different factual context for
- 17 different problems, and rather applied the principles
- to a careful analysis of the facts. 18
- 19 MR. ADKINSON: Thanks Doug. And I neglected
- to ask the panelists to remove the microphone so they 20
- 21 can speak directly into it, please. Thank you.
- 22 MS. CREIGHTON: So my name is Susan
- Creighton. I wanted to thank the FTC for the 23
- privilege of getting to appear on this panel today. 24
- 25 So unlike Dan and Doug, who are kind of authoritative

1 about what does the Microsoft case mean and they were

- 2 critical in formulating the case, I was only -- I was
- 3 involved in the case in sort of the input phase.
- 4 was representing Netscape, which was one of the
- 5 complainants at the time.
- So in five minutes, it's hard to cover all 6
- 7 the things that the Department got right. Doug and
- Dan have mentioned some of them. Some of the points I 8
- 9 was going to highlight overlap with some of the points
- they did make, but Doug and I did not actually 10
- 11 coordinate but I wanted -- the meta thing I thought
- 12 that you guys got most right and drives a lot of the
- 13 rest of the analysis is clearly the Department took
- the time to actually look at what the evidence was 14
- 15 showing regarding the nature of competition in the
- 16 operating system market.
- 17 And what it showed, I think, was that while
- browsers were a complement to Windows for users, they 18
- were a potential threat to Windows for application 19
- developers. So the browser was a potential competitor 20
- as an applications platform. And then trying to --21
- 22 rather than take that simple fact pattern and then try
- to jam it into some preexisting set of boxes like 23
- 24 leveraging, the Department actually followed the
- evidence where it led and reached a number of 25

- 1 conclusions that I think have remained foundational
- 2 for how we should think about platforms 20 years
- 3 later.
- 4 Let me highlight just four. First, DOJ
- 5 recognized the products that may have the potential to
- 6 compete even if they don't look like each other. I
- 7 think that's really important because even to this
- 8 day, regulators can find it a challenge to recognize
- 9 the company as maybe actual or potential competitors
- 10 even if they look different or if in some respects
- 11 they are complements. That tendency to narrow the set
- 12 of competitors only to those that just look the same
- 13 can result in under-enforcement, or over-enforcement,
- 14 Microsoft itself being a great example of how if you
- 15 had just looked at saying do browsers compete with
- 16 operating systems, the answer is obviously no, end of
- 17 case.
- 18 Second, as both Dan and Doug, I think, have
- 19 mentioned, the Department recognized that the key to
- 20 the operating system competition was the indirect
- 21 network effects between users and app developers so
- 22 the OEMs and ISPs were important distribution
- 23 channels, but the key dynamic by which operating
- 24 system platforms competed was by the number of
- 25 applications written for OS, which in turn depended on

- 1 attracting users on one side and app developers on the
- 2 other.
- 3 The third feature I think that was really
- 4 critical was that they focused on platform competition
- 5 as a horizontal rather than vertical problem. So
- 6 internet browsers were a threat not because they were
- 7 a profitable complement. They were very simple pieces
- 8 of software that eventually everyone gave away for
- 9 free. Rather, Microsoft itself recognized the
- 10 browsers in Java threatened to make it much easier for
- 11 app developers to write across platforms than having
- 12 to engage in the cumbersome ports from one OS to
- 13 another that were characteristic then.
- 14 And that multiplatform access in turn would
- 15 make it much easier for users to switch devices and
- 16 thus operating systems. Think about how much easier
- it is to switch devices, for example, if you're
- 18 streaming music rather than trying to port your music
- 19 downloads from one device to another.
- 20 Finally, the DOJ recognized the platforms
- 21 were dynamic, as Doug mentioned, so they needed to
- 22 understand which business practices were problematic
- 23 without chilling those that were not. In the process,
- 24 they advocated for a test that asked whether
- 25 Microsoft's conduct would make business sense but for

- 1 its tendency to exclude rivals. Although I'm not sure
- 2 that this test is always and everywhere the best one,
- 3 it works well in distinguishing between procompetitive
- 4 innovation and anticompetitive conduct when dealing
- 5 with dynamic innovative markets.
- 6 It thus enabled the Government and
- 7 ultimately the court to distinguish, for example,
- 8 between bundling IE with Windows at no charge, which
- 9 was permissible, versus implementing restrictions that
- 10 had no possible benefit to any platform participant
- 11 and served only to make it difficult to load rival
- 12 software on the machine and hence for users to
- 13 multihome.
- Now, the court did not agree with the
- department on all things, but the department's
- 16 analysis laid the basis for it to be affirmed on all
- of its key points. First, the court didn't adopt the
- 18 Department's no-business-sense test, but it did strike
- 19 down product design changes that served no legitimate
- 20 purpose, and which Microsoft did not show a plausible
- 21 competitive justification.
- 22 On the other hand it permitted those for
- 23 which Microsoft did offer a legitimate benefit. The
- 24 court took the Department one better in its horizontal
- analysis by rejecting a Section 1 tying approach to

- 1 product integration given the ubiquity of bundling on
- 2 software platforms and the plausible procompetitive
- 3 benefits of such integration.
- 4 And, finally, the court affirmed the
- 5 department's key insights regarding the nature of OS
- 6 platform competition for users and developers and a
- 7 threat to cross-platform switching posed to
- 8 Microsoft's market power. Thank you.
- 9 MR. PICKER: Hi, thank you. Thanks for
- 10 having me here. I'm Randy Picker, a professor at the
- 11 Chicago Law School. So I'll note as everyone, I would
- 12 assume, saw that Paul Allen died yesterday. The
- 13 Microsoft story is a great story, and Paul Allen was
- 14 so central to it, so I'm sorry to see him gone.
- 15 When I teach the Microsoft case in my
- 16 antitrust class, I start with the Internet Tidal Wave
- 17 memo, which is the memo -- it was Government Exhibit
- 18 20 in the case. It's really Gates at his best in the
- 19 sense that he is looking forward in the industry,
- 20 seeing where it is right now and where he thinks it's
- 21 going to go. And I think he makes two critical points
- 22 there.
- 23 So I thought what Dan said about, you know,
- 24 we don't need to talk about two-sided markets. That
- 25 may be fine. Gates obviously understood powerfully

- 1 the interaction between what was going on on the
- 2 developer side and what that meant for the consumer
- 3 side. So his first point is he says, look, Netscape's

- 4 got a 70 percent usage share and what they are doing
- 5 is, as he puts it, is they are moving Key API, the
- 6 application's programming interface, into this
- 7 middleware layer, and the great risk to Microsoft
- 8 there is is that that will commoditize -- his word --
- 9 the underlying operating system, and no one will care
- 10 what operating system they're using.
- 11 The question I always ask in class is what
- 12 brand of plumbing do you have in your house? Not
- 13 faucets, we Americans have a peculiar fascination with
- 14 faucets. I mean actually the plumbing, and no one
- 15 ever knows. It's not that plumbing's unimportant,
- 16 right, but it's a commodity, okay. So Gates saw that
- 17 Netscape posed this risk of changing where competition
- 18 was taking place with regard to developers and the way
- 19 in which this browser, sort of this adjacent market,
- 20 was going to maybe then or in future generations going
- 21 to directly compete with Microsoft in the OS market.
- 22 That's the story the Government told.
- I think that was exactly the right story but
- 24 that's what Gates saw as well. The second thing he
- 25 says is, and this is where Dan talks about these

- 1 unknowns, Gates says, oh, some people are talking
- 2 about this really frightening -- that's his word --
- 3 possibility where someone will come up with a kind of
- 4 device that you can use to browse the internet, and it
- 5 will be a lot cheaper than a PC, and you won't need
- the Microsoft operating system. It is really hard to 6
- 7 imagine what that world might look like, right, so
- other than today, right? 8
- 9 So Gates understood exactly what was going
- to happen and saw that and the threat that that posed. 10
- 11 It's not that I think -- I don't know what Microsoft's
- 12 current market share is on PCs, I suspect it's pretty
- 13 high still. What's happened to Microsoft is not that
- 14 somehow their position has been lost in PCs, but
- rather this whole other world of computing devices has 15
- 16 exploded and the PC is just, you know, a piece of it
- 17 but not the dominant position it was.
- 18 So Gates saw all that and responded to
- 19 Netscape in a powerful way because of that.
- Government's case, I mean, we've talked about the 20
- 21 success of it. I want to hear more about some of the
- 22 failures. So there was an attempted monopolization
- 23 claim of the browser market, that died. How we think
- about what an incumbent -- a dominant incumbent does 24
- 25 with regard to new adjacent markets, I think that's a

- 1 really important platform issue, and the attempted
- 2 monopolization claim was in that spirit.
- 3 So I'd love to hear more from -- what did
- 4 you say they were, that they were the definitive
- 5 sources -- on that. And then obviously the tying
- 6 claim, which again relates to this question of to what
- 7 extent are we going to constrain an incumbent into
- 8 moving into these adjacent markets. That issue
- 9 dropped on remand, and I thought that was exactly the
- 10 right strategic choice, but from a standpoint of
- 11 knowing what the law is, that remains a little
- 12 frustrating.
- I think the question we should ask today is
- 14 now with the benefit of all this development of two-
- 15 sided markets is to ask, well, if we bring that
- 16 analysis to bear on the Microsoft case, do we get any
- 17 different insights into the behavior that we saw
- 18 there, right? So when you teach two-sided markets in
- 19 class, I have this very simple sort of example of why
- 20 pricing below marginal cost might be very sensible in
- 21 two-sided markets. We don't usually allow that in
- 22 one-sided markets. You build it up, and what you're
- 23 trying to convey to students is, is that you can't
- 24 just apply your single-market intuitions to two-sided
- 25 markets. You've got to be more sophisticated.

- 1 So go back and ask the questions. If we
- 2 look at what Microsoft did through a two-sided market
- 3 lens, does it look any different? I think the answer
- 4 to that is sort of no. I thought what Doug said was
- 5 right, which is the granularity with which the case
- 6 was presented and which the DC Circuit found
- 7 compelling, I talk about add/remove in class, too, you
- 8 know, the commingling of code, the embedding of the IE
- 9 icon.
- 10 Microsoft didn't offer a procompetitive
- 11 justification for any of those. And I think even in a
- 12 world of two-sided markets it would struggle to do
- 13 that now. Oh, I'm out of time, so I should stop.
- 14 I do think, you know, the bolder story would
- 15 be to argue if you're Microsoft back then as to why
- 16 fragmentation in these markets would be bad, that's
- 17 what Google has tried to do unsuccessfully in Android.
- 18 And I think if you made those arguments in a two-sided
- 19 market maybe you'd be able to try to bolster their
- 20 position. I think ultimately those are losers, but
- 21 that's the direction I would want to go, I think.
- But I do think it's interesting to relook at
- 23 what they did, ask what could they have done had they
- 24 simply tied and not engaged in all these other silly
- 25 behaviors, what would the case have looked like and

- 1 how would we see that through a two-sided framework.
- 2 MS. BRANNON: Hi, I'm Leah Brannon. I want
- 3 to thank Bill and the FTC for inviting me to join on
- 4 this panel. At the time of the case, I clerked for
- 5 Judge Ginsburg on the DC Circuit. So I'm really
- 6 excited that we're talking about the case 17 years
- 7 later, that it's held up pretty well over time. It's
- 8 been cited -- I checked in Westlaw the other day --
- 9 it's been cited more than 1,500 times in cases and law
- 10 review articles, including twice by the Supreme Court
- 11 in Trinko and linkLine, more than 100 times by the
- 12 Federal Courts of Appeals, around 300 times by the
- 13 District Courts, and 1,200 law review articles. So
- 14 it's been cited many times. I like to think that's
- 15 because it was groundbreaking, but it's probably also
- 16 because it was just a really long opinion and it
- 17 covered a lot of topics.
- So as you probably all know, the opinion
- 19 touched on monopoly power, the standard for
- 20 monopolization, licensing restrictions as an active
- 21 monopolization, predatory product design, exclusive
- 22 dealing, deception, attempted monopolization, tying,
- 23 course of conduct, causation, and that's just the
- 24 antitrust discussion. It actually gets cited -- a lot
- 25 of those citations are for the judicial misconduct

- 1 section, which was an odd sideshow part of the case.
- I think, you know, my opinion is that one of
- 3 the most important contributions of the case was the
- 4 court's decision to apply the rule of reason, just the
- 5 basic rule of reason, to monopolization claims. There
- 6 were other standards. I think Susan touched on this,
- 7 and Doug. There were other standards floating around
- 8 at the time. Even in connection with Microsoft, a
- 9 couple of years earlier, Judge Williams in the consent
- 10 decree case, had written an opinion basically
- 11 indicating that if the defendant has any
- 12 procompetitive effect for its conduct, no matter how
- 13 small, that immunizes all of its conduct. That was
- 14 one possible standard.
- 15 There was also the test the Government was
- 16 pushing that Susan called the business sense, you
- 17 know, does something -- does conduct make no economic
- 18 sense but for a tendency to monopolize. So there were
- 19 a lot of other standards, and the court adopted and
- 20 applied the rule of reason. So I'll turn it over to
- 21 Tim.
- MR. WU: Thank you very much. Tim Wu, and I
- 23 want to thank Bill and also the FTC. It's a pleasure
- 24 to be here. My involvement in the actual Microsoft
- 25 case was somewhat tangential. I was a research

1 assistant for Larry Lessig right when he became the

- 2 special master and then later was a clerk for Dick
- 3 Posner, right about when he -- so if anyone remembers
- 4 the strange chapter when all these guys got involved,
- 5 but, of course, that all amounted to nothing and so
- 6 that was that.
- 7 I have studied -- actually maybe more
- 8 important is I was working in Silicon Valley when the
- 9 decision came down. And that's what I think is -- and
- felt some of the after-effects. And that's what I 10
- 11 want to focus on in my comments here. I think -- you
- 12 know, I think there are many lessons from Microsoft.
- But I think it teaches us something very important 13
- about enforcement policy in particular. And the --14
- essentially the courage and the determination and the 15
- 16 -- as was already described, the great care with which
- 17 the Government brought its case is I think an
- important model for the agency, for FTC, for the 18
- Justice Department, for anyone who is serious about 19
- enforcement of the antitrust laws. 20
- 21 You know, to make the point obvious, the
- 22 antitrust laws don't have any effect unless they're
- 23 enforced, and they go through periods of great quiet
- 24 and calm when enforcement doesn't happen. You know,
- 25 in the very beginning of the law's passage, it wasn't

- 1 seriously enforced for almost a decade. And so it
- 2 always takes, you know, a certain, I'd say, courage to
- 3 bring these cases.
- I think it's worth remembering that the
- 5 Microsoft case, I happen to think it was antitrust at
- 6 one of its finest hours, maybe along with AT&T, and I
- 7 think other people have said that. But at the time,
- 8 there was enormous resistance to the idea of bringing
- 9 this case. Doug already highlighted some of the
- 10 reasons. People said it's a new and dynamic industry,
- 11 you know, someone else will come along and swallow
- 12 Microsoft in ten minutes.
- 13 There was also -- and I want to emphasize
- 14 this -- no really clear price effects for what they
- 15 were doing. Explorer was being given away for free.
- 16 You know, Microsoft was like a charity, giving this
- 17 new product to everybody. You know, so why would
- 18 anyone argue with that? Bill Gates was kind of a
- 19 darling at the time, a symbol of American
- 20 entrepreneurship. And so it required sailing into the
- 21 headwinds to some degree to bring this case.
- 22 And I think that was an act of courage, and
- 23 I think the lesson for today's enforcers is that they
- 24 need to have the courage and also have the -- let me
- 25 make three particular points about this -- have the

- 1 courage to take cases in these kind of situations. So
- 2 here are the three things I think are particularly
- 3 important.
- 4 One is the fact that Microsoft was brought
- 5 without clear, at least as far as I know, clear
- 6 evidence of price effects. So, you know, it wasn't
- 7 obvious that the campaign against Netscape was
- 8 actually inflating prices to consumers. And,
- 9 therefore, the case was brought -- you know, had to
- 10 be brought in this more complex theory that, in fact,
- 11 that it was affecting competition for the platform
- 12 and was monopoly maintenance.
- 13 And, so, you know, that took a certain -- I
- 14 think we've in subsequent years sometimes been too
- 15 nervous, unwilling to bring cases when we don't have a
- 16 clear price effect, and it's worth going back to
- 17 Microsoft to notice, even if the product is given away
- 18 for free, that doesn't necessarily tell us the whole
- 19 story.
- 20 Second and related to that is the
- 21 observation -- and everyone knows this -- is that the
- 22 greatest benefits for successful antitrust enforcement
- 23 have to did with dynamic benefits with innovation
- 24 effects, for example. And that means the
- 25 beneficiaries may be unknown, in fact, and not

- 1 obvious. This is my second point. So when you look
  - 2 at the aftermath of Microsoft -- actually it didn't
  - 3 really help out Netscape very well. Netscape plunged

- 4 in market share, Explorer did, in fact, gain a
- 5 monopoly. It was at something like 95 percent in 2002
- 6 or so. So, you know, it wasn't -- I mean, Netscape
- 7 became Mozilla and so forth, but it didn't actually
- 8 save that company.
- 9 The real beneficiaries at the time when you
- 10 look back were the companies that were beginning and
- 11 starting to make -- to view the web as a development
- 12 platform to try to make their fortunes on top of the
- 13 HTML protocol and on the internet. In other words,
- 14 the great beneficiaries are really Google, Facebook,
- 15 Amazon, and some other companies who might have been
- 16 in a very different situation with an unpoliced
- 17 browser.
- 18 And I think -- you know, I don't think,
- 19 maybe -- I think people were thinking about that in
- 20 abstract terms, but Google was a college project when
- 21 the -- or grad school project when the case was begun.
- 22 So it was impossible to realize some of the value that
- 23 might be created but required the sort of faith and
- 24 not just faith but some ability to realize that the
- 25 dynamic benefits might be lost.

- I realize I'm out of time, so I'll just say
- 2 my third point. The last lesson, I think, for
- 3 enforcers or, frankly, innovation policy from
- 4 Microsoft, I think, is taking a careful effect -- a
- 5 careful look at the effect of what I call the
- 6 policeman at the elbow for the conduct of a
- 7 monopolist. Many people have noticed, sometimes
- 8 said, well, you know, no one -- they didn't break
- 9 up Microsoft. It kept a monopoly.
- 10 But one of the most -- I really think the
- 11 most important effects, as I've suggested, was the
- 12 fact that Microsoft after the suit was chastened and
- operated with a policeman at the elbow and therefore
- 14 never did some of the most obvious moves they could
- 15 have on an unregulated browser, such as making sure,
- 16 for example, that their search engine was a default
- 17 and was impossible to remove or any of the other
- 18 things you might have done with a completely
- 19 unsupervised browser.
- 20 So I've used up my five minutes but those
- 21 were some of the things I thought.
- 22 MR. ADKINSON: I want to thank the panelists
- 23 for keeping it on time. That was a great job. I also
- 24 want to thank my colleague, Derek Moore, for having
- 25 thought of this topic for a panel. He deserves a lot